



# Installation systems

## QPD installation system

Industrial power distribution does not have to be time-consuming or complicated. The robust IP68/IP69K installation system for capacities up to 690 V/40 A from Phoenix Contact is proof of this.

Thanks to the proven QUICKON IDC fast connection, cables up to 5 x 6.0 mm<sup>2</sup> can be connected quickly and easily, without the need for stripping or special tools.

The system, which consists of H- and T-distributors, panel feed-throughs, connectors, and cable connectors, offers a wide range of options for power distribution in industrial environments and building installation.

### 1.5 mm<sup>2</sup> installation system

|                     |     |
|---------------------|-----|
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|                     |     |
|---------------------|-----|
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### 6.0 mm<sup>2</sup> installation system

|                     |     |
|---------------------|-----|
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| Connectors          | 473 |
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|                          |            |
|--------------------------|------------|
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|--------------------------|------------|

# Installation system

## 1.5 mm<sup>2</sup> installation system

### H-distributor, 1.5 mm<sup>2</sup>

new

new

- Can be used as a H-distributor with continuous master cable
- Can be used as a star distributor
- Can be used as a Y-distributor with a test connection
- Touch-proof in accordance with DIN EN 50274
- Also available as gray color versions



With four QUICKON nuts



Without QUICKON nut

|                                                                                  | Technical data |                                           |           | Technical data |                                           |             |   |
|----------------------------------------------------------------------------------|----------------|-------------------------------------------|-----------|----------------|-------------------------------------------|-------------|---|
|                                                                                  | 2+PE-pos.      | 3+PE-pos.                                 | 4+PE-pos. | 2+PE-pos.      | 3+PE-pos.                                 | 4+PE-pos.   |   |
| General data                                                                     |                |                                           |           |                |                                           |             |   |
| Degree of protection                                                             |                | IP68 / IP69K                              |           |                | IP68 / IP69K                              |             |   |
| Electrical data                                                                  |                |                                           |           |                |                                           |             |   |
| Rated voltage (III/3)                                                            |                | 690 V                                     |           |                | 690 V                                     |             |   |
| Rated surge voltage                                                              |                | 6 kV                                      |           |                | 6 kV                                      |             |   |
| Rated current                                                                    |                | 17.5 A                                    |           |                | 17.5 A                                    |             |   |
| Surge voltage category/pollution degree                                          |                | III / 3                                   |           |                | III / 3                                   |             |   |
| Material data                                                                    |                |                                           |           |                |                                           |             |   |
| Housing material                                                                 |                | PA                                        |           |                | PA                                        |             |   |
| Contact material                                                                 |                | Cu                                        |           |                | Cu                                        |             |   |
| Inflammability class according to UL 94                                          |                | V0                                        |           |                | V0                                        |             |   |
| Mechanical data                                                                  |                |                                           |           |                |                                           |             |   |
| Impact category                                                                  |                | IK07                                      |           |                | IK07                                      |             |   |
| Color                                                                            |                | Black                                     |           |                | Black                                     |             |   |
| Connector data QUICKON connection                                                |                |                                           |           |                |                                           |             |   |
| Core insulation                                                                  |                | PVC/PE/TPE/rubber                         |           |                | PVC/PE/TPE/rubber                         |             |   |
| Structure of individual litz wire/smallest wire diameter                         |                | VDE 0295 class 1 to 6/min. 0.15 mm        |           |                | VDE 0295 class 1 to 6/min. 0.15 mm        |             |   |
| Connection frequency                                                             |                | max. 10                                   |           |                | max. 10                                   |             |   |
| Conductor cross section [mm²] solid/stranded                                     |                | 0.5 mm² ... 1.5 mm² / 0.5 mm² ... 1.5 mm² |           |                | 0.5 mm² ... 1.5 mm² / 0.5 mm² ... 1.5 mm² |             |   |
| Conductor cross section [AWG]                                                    |                | 20 ... 16                                 |           |                | 20 ... 16                                 |             |   |
| Temperature data                                                                 |                |                                           |           |                |                                           |             |   |
| Ambient temperature (operation)                                                  |                | -40 °C ... 80 °C                          |           |                | -40 °C ... 80 °C                          |             |   |
| Temperature when conductor connected                                             |                | -5 °C ... 50 °C                           |           |                | -5 °C ... 50 °C                           |             |   |
|                                                                                  | Ordering data  |                                           |           | Ordering data  |                                           |             |   |
| Description                                                                      | Order No.      | Pcs. / Pkt.                               | Order No. | Pcs. / Pkt.    | Order No.                                 | Pcs. / Pkt. |   |
|                                                                                  | 2+PE-pos.      |                                           | 3+PE-pos. |                | 4+PE-pos.                                 |             |   |
| H-distributor, with four QUICKON nuts and one sealing bolt, for cable diameters: |                |                                           |           |                |                                           |             |   |
| 4 mm ... 9 mm                                                                    | 1414719        | 1                                         | 1414715   | 1              |                                           |             |   |
| 8 mm ... 13 mm                                                                   | 1414720        | 1                                         | 1414716   | 1              |                                           |             |   |
| 5 mm ... 10 mm                                                                   |                |                                           |           |                | 1414755                                   | 1           |   |
| 9 mm ... 14 mm                                                                   |                |                                           |           |                | 1414756                                   | 1           |   |
| H-distributor, without QUICKON nuts                                              |                |                                           |           |                |                                           |             |   |
|                                                                                  |                |                                           |           |                | 1414721                                   | 1           |   |
|                                                                                  |                |                                           |           |                | 1414717                                   | 1           |   |
|                                                                                  |                |                                           |           |                | 1414757                                   | 1           |   |
| QUICKON nut, for connections up to 1.5 mm², for cable diameter:                  |                |                                           |           |                |                                           |             |   |
| 4 mm ... 9 mm                                                                    |                |                                           |           |                | 1415099                                   | 1           |   |
| 8 mm ... 13 mm                                                                   |                |                                           |           |                | 1415100                                   | 1           |   |
| 5 mm ... 10 mm                                                                   |                |                                           |           |                |                                           |             |   |
| 9 mm ... 14 mm                                                                   |                |                                           |           |                |                                           |             |   |
|                                                                                  |                |                                           |           |                |                                           | 1415101     | 1 |
|                                                                                  |                |                                           |           |                |                                           | 1415104     | 1 |

T-distributor, 1.5 mm<sup>2</sup>

new

new

- Can be used as a T-distributor with continuous master cable
- Touch-proof in accordance with DIN EN 50274
- Also available as gray color versions



With three QUICKON nuts



With two QUICKON nuts

|                                                           | Technical data |                                                                                           |           | Technical data |                                                                                           |           |
|-----------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------|-----------|----------------|-------------------------------------------------------------------------------------------|-----------|
|                                                           | 2+PE-pos.      | 3+PE-pos.                                                                                 | 4+PE-pos. | 2+PE-pos.      | 3+PE-pos.                                                                                 | 4+PE-pos. |
| General data                                              |                |                                                                                           |           |                |                                                                                           |           |
| Degree of protection                                      |                | IP68 / IP69K                                                                              |           |                | IP68 / IP69K                                                                              |           |
| Electrical data                                           |                |                                                                                           |           |                |                                                                                           |           |
| Rated voltage (III/3)                                     |                | 690 V                                                                                     |           |                | 690 V                                                                                     |           |
| Rated surge voltage                                       |                | 6 kV                                                                                      |           |                | 6 kV                                                                                      |           |
| Rated current                                             |                | 17.5 A                                                                                    |           |                | 17.5 A                                                                                    |           |
| Surge voltage category/pollution degree                   |                | III / 3                                                                                   |           |                | III / 3                                                                                   |           |
| Material data                                             |                |                                                                                           |           |                |                                                                                           |           |
| Housing material                                          |                | PA                                                                                        |           |                | PA                                                                                        |           |
| Contact material                                          |                | Cu                                                                                        |           |                | Cu                                                                                        |           |
| Inflammability class according to UL 94                   |                | V0                                                                                        |           |                | V0                                                                                        |           |
| Mechanical data                                           |                |                                                                                           |           |                |                                                                                           |           |
| Impact category                                           |                | IK07                                                                                      |           |                | IK07                                                                                      |           |
| Color                                                     |                | Black                                                                                     |           |                | Black                                                                                     |           |
| Connector data QUICKON connection                         |                |                                                                                           |           |                |                                                                                           |           |
| Core insulation                                           |                | PVC/PE/TPE/rubber                                                                         |           |                | PVC/PE/TPE/rubber                                                                         |           |
| Structure of individual litz wire/smallest wire diameter  |                | VDE 0295 class 1 to 6/min. 0.15 mm                                                        |           |                | VDE 0295 class 1 to 6/min. 0.15 mm                                                        |           |
| Connection frequency                                      |                | max. 10                                                                                   |           |                | max. 10                                                                                   |           |
| Conductor cross section [mm <sup>2</sup> ] solid/stranded |                | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> / 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |           |                | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> / 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |           |
| Conductor cross section [AWG]                             |                | 20 ... 16                                                                                 |           |                | 20 ... 16                                                                                 |           |
| Temperature data                                          |                |                                                                                           |           |                |                                                                                           |           |
| Ambient temperature (operation)                           |                | -40 °C ... 80 °C                                                                          |           |                | -40 °C ... 80 °C                                                                          |           |
| Temperature when conductor connected                      |                | -5 °C ... 50 °C                                                                           |           |                | -5 °C ... 50 °C                                                                           |           |

|                                                                                      | Ordering data |             |           | Ordering data |           |             |
|--------------------------------------------------------------------------------------|---------------|-------------|-----------|---------------|-----------|-------------|
|                                                                                      | Order No.     | Pcs. / Pkt. | Order No. | Pcs. / Pkt.   | Order No. | Pcs. / Pkt. |
| Description                                                                          | 2+PE-pos.     |             | 3+PE-pos. |               | 4+PE-pos. |             |
|                                                                                      | Order No.     | Pcs. / Pkt. | Order No. | Pcs. / Pkt.   | Order No. | Pcs. / Pkt. |
| <b>T-distributor</b> , for cable diameter:                                           |               |             |           |               |           |             |
| 4 mm ... 9 mm                                                                        | 1414712       | 1           | 1414708   | 1             |           |             |
| 8 mm ... 13 mm                                                                       | 1414714       | 1           | 1414710   | 1             |           |             |
| 5 mm ... 10 mm                                                                       |               |             |           |               | 1414753   | 1           |
| 9 mm ... 14 mm                                                                       |               |             |           |               | 1414754   | 1           |
| <b>QUICKON nut</b> , for connections up to 1.5 mm <sup>2</sup> , for cable diameter: |               |             |           |               |           |             |
| 4 mm ... 9 mm                                                                        |               |             |           |               |           |             |
| 8 mm ... 13 mm                                                                       |               |             |           |               |           |             |
| 5 mm ... 10 mm                                                                       |               |             |           |               |           |             |
| 9 mm ... 14 mm                                                                       |               |             |           |               |           |             |

# Installation system

## 1.5 mm<sup>2</sup> installation system

### Cable connector, 0.14 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>

new

- Easy cable extension or cable repairs
- The QUICKON connections feature different position markings and mechanical coding
- Touch-proof in accordance with DIN EN 50274



Unshielded



Shielded

ERC

|                                                                         | Technical data                                |                                              |                                           | Technical data                                    |                                             |             |
|-------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------|-------------------------------------------|---------------------------------------------------|---------------------------------------------|-------------|
|                                                                         | 0.34 mm <sup>2</sup>                          | 0.75 mm <sup>2</sup>                         | 1.5 mm <sup>2</sup>                       | 4-pos.                                            | 5-pos.                                      | 8-pos.      |
| General data                                                            |                                               |                                              |                                           |                                                   |                                             |             |
| Degree of protection                                                    | IP65 / IP67                                   |                                              |                                           | IP65 / IP67                                       |                                             |             |
| Electrical data                                                         |                                               |                                              |                                           |                                                   |                                             |             |
| Rated voltage (III/3)                                                   | 125 V                                         | 250 V                                        | 500 V                                     | 250 V                                             | 60 V                                        | 30 V        |
| Rated surge voltage                                                     | 2.5 kV                                        | 4 kV                                         | 6 kV                                      |                                                   | -                                           |             |
| Rated current                                                           | 5 A                                           | 9 A                                          | 15 A                                      |                                                   | 4 A                                         | 2 A         |
| Surge voltage category/pollution degree                                 |                                               | III / 3                                      |                                           |                                                   | II / 3                                      | III / 3     |
| Material data                                                           |                                               |                                              |                                           |                                                   |                                             |             |
| Housing material                                                        | PA                                            |                                              |                                           | Zinc die-cast, surface bronzed, and nickel-plated |                                             |             |
| Contact material                                                        | Steel                                         |                                              |                                           | CuSn                                              |                                             |             |
| Contact surface material                                                | Tin-plated                                    |                                              |                                           | Ni/Au                                             |                                             |             |
| Inflammability class according to UL 94                                 | V0                                            |                                              |                                           | V0                                                |                                             |             |
| Impact category                                                         | IK06                                          |                                              |                                           | -                                                 |                                             |             |
| Connector data QUICKON connection                                       |                                               |                                              |                                           |                                                   |                                             |             |
| Core insulation                                                         | PVC/PE                                        |                                              |                                           | PVC / PE / PP / rubber                            |                                             |             |
| Structure of individual litz wire/smallest wire diameter                | VDE 0295 class 1 to 6 / min. 0.10 mm          | VDE 0295 class 1 to 6/min. 0.15 mm           |                                           | Class 2-6 / 0.1 mm                                |                                             |             |
| Connection frequency                                                    | 10                                            |                                              |                                           | 10                                                |                                             |             |
| Conductor cross section [mm²] solid/stranded                            | 0.14 mm² ... 0.25 mm² / 0.14 mm² ... 0.34 mm² | 0.34 mm² ... 0.5 mm² / 0.34 mm² ... 0.75 mm² | 0.75 mm² ... 1 mm² / 0.75 mm² ... 1.5 mm² | 0.14 mm² ... 0.75 mm² / 0.14 mm² ... 0.75 mm²     | 0.14 mm² ... 0.5 mm² / 0.14 mm² ... 0.5 mm² |             |
| Conductor cross section [AWG]                                           | 26 ... 22                                     | 22 ... 18                                    | 18 ... 16                                 | 26 ... 18                                         | 26 ... 20                                   |             |
| Temperature data                                                        |                                               |                                              |                                           |                                                   |                                             |             |
| Ambient temperature (operation)                                         | -40 °C ... 80 °C                              |                                              |                                           | -40 °C ... 85 °C                                  |                                             |             |
| Temperature when conductor connected                                    | -5 °C ... 50 °C                               |                                              |                                           | -5 °C ... 50 °C                                   |                                             |             |
|                                                                         | Ordering data                                 |                                              |                                           | Ordering data                                     |                                             |             |
| Description                                                             | Order No.                                     | Pcs. / Pkt.                                  | Order No.                                 | Pcs. / Pkt.                                       | Order No.                                   | Pcs. / Pkt. |
|                                                                         | 0.34 mm <sup>2</sup>                          |                                              | 0.75 mm <sup>2</sup>                      |                                                   | 1.5 mm <sup>2</sup>                         |             |
| Cable connector, for connecting round cables, cable diameter:           |                                               |                                              |                                           |                                                   |                                             |             |
|                                                                         | 3.5 mm ... 6 mm, 4-pos.                       | 1641879                                      | 1                                         |                                                   |                                             |             |
|                                                                         | 4.0 mm ... 8 mm, 4-pos.                       |                                              |                                           | 1642140                                           | 1                                           |             |
|                                                                         | 6 mm ... 12 mm, 4-pos.                        |                                              |                                           |                                                   | 1642153                                     | 1           |
| 6 mm ... 12 mm, 3+PE-pos.                                               |                                               |                                              |                                           | 1642182                                           | 1                                           |             |
| Cable connector, shielded, color-coded terminal blocks, cable diameter: |                                               |                                              |                                           |                                                   |                                             |             |
| 5.0 mm ... 10.0 mm                                                      |                                               |                                              |                                           |                                                   |                                             |             |
|                                                                         | 1414418                                       | 1                                            | 1414417                                   | 1                                                 | 1414612                                     | 1           |

new

- 

**With two QUICKON nuts**



**With one QUICKON nut**

PHOENIX CONTACT

# Installation system

## 1.5 mm<sup>2</sup> installation system

### Panel feed-throughs, 1.5 mm<sup>2</sup>

- Devices no longer need to be opened in order to connect the cables
- User-friendly connection, even on devices that are difficult to access
- Touch-proof in accordance with DIN EN 50274



With litz wires



With manual solder/slip-on connection



#### Technical data

|                                                           | 3+PE-pos.                                                                                 | 4-pos. |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------|--------|
| General data                                              |                                                                                           |        |
| Degree of protection                                      | IP65 / IP67                                                                               |        |
| Electrical data                                           |                                                                                           |        |
| Rated voltage (III/3)                                     | 500 V                                                                                     |        |
| Rated surge voltage                                       | 6 kV                                                                                      |        |
| Rated current                                             | 15 A                                                                                      |        |
| Surge voltage category/pollution degree                   | III / 3                                                                                   |        |
| Material data                                             |                                                                                           |        |
| Housing material                                          | PA                                                                                        |        |
| Contact material                                          | CuZn                                                                                      |        |
| Contact surface material                                  | Tin-plated                                                                                |        |
| Inflammability class according to UL 94                   | V0                                                                                        |        |
| Impact category                                           | IK07                                                                                      |        |
| Color                                                     | Black                                                                                     |        |
| Connector data QUICKON connection                         |                                                                                           |        |
| Core insulation                                           | PVC/PE                                                                                    |        |
| Structure of individual litz wire/smallest wire diameter  | VDE 0295 class 1 to 6/min. 0.15 mm                                                        |        |
| Connection frequency                                      | 10                                                                                        |        |
| Conductor cross section [mm <sup>2</sup> ] solid/stranded | 0.75 mm <sup>2</sup> ... 1 mm <sup>2</sup> / 0.75 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |        |
| Conductor cross section [AWG]                             | 18 ... 16                                                                                 |        |
| Temperature data                                          |                                                                                           |        |
| Ambient temperature (operation)                           | -40 °C ... 80 °C                                                                          |        |
| Temperature when conductor connected                      | -5 °C ... 50 °C                                                                           |        |

#### Ordering data

| Description                                                                                                                                                | Cable length   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>Panel feed-through</b> , with 1.5 mm <sup>2</sup> litz wire, connecting thread: M20 x 1.5                                                               | 0.1 m<br>0.5 m |
| <b>Panel feed-through</b> , with 4.8 mm x 0.8 mm manual solder/slip-on connection, connection thread: M20 x 1.5, color: black, terminal marking: L1, N, PE |                |
| <b>Panel feed-through</b> , with 4.8 mm x 0.8 mm manual solder/slip-on connection, connecting thread: M20 x 1.5, color: black                              | 0.05 m         |

| Order No. | Pcs. / Pkt. | Order No. | Pcs. / Pkt. |
|-----------|-------------|-----------|-------------|
| 3+PE-pos. |             | 4-pos.    |             |
| 1584787   | 10          | 1585045   | 10          |
|           |             |           |             |
|           |             |           |             |



#### Technical data

|                                                           | 3-pos.                                                                                    | 4-pos.                             |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------|
| General data                                              |                                                                                           |                                    |
| Degree of protection                                      | IP65 / IP67                                                                               |                                    |
| Electrical data                                           |                                                                                           |                                    |
| Rated voltage (III/3)                                     | 500 V                                                                                     |                                    |
| Rated surge voltage                                       | 6 kV                                                                                      |                                    |
| Rated current                                             | 15 A                                                                                      |                                    |
| Surge voltage category/pollution degree                   | III / 3                                                                                   |                                    |
| Material data                                             |                                                                                           |                                    |
| Housing material                                          | PA                                                                                        |                                    |
| Contact material                                          | CuZn                                                                                      |                                    |
| Contact surface material                                  | Tin-plated                                                                                |                                    |
| Inflammability class according to UL 94                   | V0                                                                                        |                                    |
| Impact category                                           | IK07                                                                                      |                                    |
| Color                                                     | Black                                                                                     |                                    |
| Connector data QUICKON connection                         |                                                                                           |                                    |
| Core insulation                                           | PVC/PE                                                                                    |                                    |
| Structure of individual litz wire/smallest wire diameter  | VDE 0295 Cl.2-5, min. wire diameter 0.2 mm                                                | VDE 0295 class 1 to 6/min. 0.15 mm |
| Connection frequency                                      | 10                                                                                        |                                    |
| Conductor cross section [mm <sup>2</sup> ] solid/stranded | 0.75 mm <sup>2</sup> ... 1 mm <sup>2</sup> / 0.75 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |                                    |
| Conductor cross section [AWG]                             | 18 ... 16                                                                                 |                                    |
| Temperature data                                          |                                                                                           |                                    |
| Ambient temperature (operation)                           | -25 °C ... 80 °C                                                                          | -40 °C ... 80 °C                   |
| Temperature when conductor connected                      | -5 °C ... 50 °C                                                                           |                                    |

#### Ordering data

| Order No. | Pcs. / Pkt. | Order No. | Pcs. / Pkt. |
|-----------|-------------|-----------|-------------|
| 3-pos.    |             | 4-pos.    |             |
| 1641594   | 10          |           |             |
|           |             |           |             |
| 1641659   | 10          | 1643000   | 10          |

## Panel feed-throughs, 1.5 mm<sup>2</sup>, with litz wires

new

new

- Devices no longer need to be opened in order to connect the cables
- User-friendly connection, even on devices that are difficult to access
- Touch-proof in accordance with DIN EN 50274
- Also available as gray color versions



With QUICKON nut



Without QUICKON nut

|                                                                                                   | Technical data |                                                                                           |           | Technical data |                                                                                           |             |
|---------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------|-----------|----------------|-------------------------------------------------------------------------------------------|-------------|
|                                                                                                   | 2+PE-pos.      | 3+PE-pos.                                                                                 | 4+PE-pos. | 2+PE-pos.      | 3+PE-pos.                                                                                 | 4+PE-pos.   |
| General data                                                                                      |                |                                                                                           |           |                |                                                                                           |             |
| Degree of protection                                                                              |                | IP68 / IP69K                                                                              |           |                | IP68 / IP69K                                                                              |             |
| Electrical data                                                                                   |                |                                                                                           |           |                |                                                                                           |             |
| Rated voltage (III/3)                                                                             |                | 690 V                                                                                     |           |                | 690 V                                                                                     |             |
| Rated surge voltage                                                                               |                | 6 kV                                                                                      |           |                | 6 kV                                                                                      |             |
| Rated current                                                                                     |                | 17.5 A                                                                                    |           |                | 17.5 A                                                                                    |             |
| Surge voltage category/pollution degree                                                           |                | III / 3                                                                                   |           |                | III / 3                                                                                   |             |
| Material data                                                                                     |                |                                                                                           |           |                |                                                                                           |             |
| Housing material                                                                                  |                | PA                                                                                        |           |                | PA                                                                                        |             |
| Contact material                                                                                  |                | Cu                                                                                        |           |                | Cu                                                                                        |             |
| Inflammability class according to UL 94                                                           |                | V0                                                                                        |           |                | V0                                                                                        |             |
| Mechanical data                                                                                   |                |                                                                                           |           |                |                                                                                           |             |
| Impact category                                                                                   |                | IK07                                                                                      |           |                | IK07                                                                                      |             |
| Color                                                                                             |                | Black                                                                                     |           |                | Black                                                                                     |             |
| Connector data QUICKON connection                                                                 |                |                                                                                           |           |                |                                                                                           |             |
| Core insulation                                                                                   |                | PVC/PE/TPE/rubber                                                                         |           |                | PVC/PE/TPE/rubber                                                                         |             |
| Structure of individual litz wire/smallest wire diameter                                          |                | VDE 0295 class 1 to 6/min. 0.15 mm                                                        |           |                | VDE 0295 class 1 to 6/min. 0.15 mm                                                        |             |
| Connection frequency                                                                              |                | max. 10                                                                                   |           |                | max. 10                                                                                   |             |
| Conductor cross section [mm <sup>2</sup> ] solid/stranded                                         |                | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> / 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |           |                | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> / 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |             |
| Conductor cross section [AWG]                                                                     |                | 20 ... 16                                                                                 |           |                | 20 ... 16                                                                                 |             |
| Temperature data                                                                                  |                |                                                                                           |           |                |                                                                                           |             |
| Ambient temperature (operation)                                                                   |                | -40 °C ... 80 °C                                                                          |           |                | -40 °C ... 80 °C                                                                          |             |
| Temperature when conductor connected                                                              |                | -5 °C ... 50 °C                                                                           |           |                | -5 °C ... 50 °C                                                                           |             |
|                                                                                                   | Ordering data  |                                                                                           |           | Ordering data  |                                                                                           |             |
|                                                                                                   | Order No.      | Pcs. / Pkt.                                                                               | Order No. | Pcs. / Pkt.    | Order No.                                                                                 | Pcs. / Pkt. |
| Description                                                                                       | 2+PE-pos.      | 3+PE-pos.                                                                                 | 4+PE-pos. | 2+PE-pos.      | 3+PE-pos.                                                                                 | 4+PE-pos.   |
| <b>Panel feed-through, with M20 x 1.5 mounting flange, with QUICKON nut, for cable diameter:</b>  |                |                                                                                           |           |                |                                                                                           |             |
| 4 mm ... 9 mm                                                                                     | 0.5 m          | 1414684 1                                                                                 | 1414675 1 |                |                                                                                           |             |
| 4 mm ... 9 mm                                                                                     | 1 m            | 1414685 1                                                                                 | 1414676 1 |                |                                                                                           |             |
| 8 mm ... 13 mm                                                                                    | 0.5 m          | 1414687 1                                                                                 | 1414678 1 |                |                                                                                           |             |
| 8 mm ... 13 mm                                                                                    | 1 m            | 1414688 1                                                                                 | 1414679 1 |                |                                                                                           |             |
| <b>Panel feed-through, with M25 x 1.5 mounting flange, with QUICKON nut, for cable diameters:</b> |                |                                                                                           |           |                |                                                                                           |             |
| 5 mm ... 10 mm                                                                                    | 0.5 m          |                                                                                           | 1414730 1 |                |                                                                                           |             |
| 5 mm ... 10 mm                                                                                    | 1 m            |                                                                                           | 1414731 1 |                |                                                                                           |             |
| 9 mm ... 14 mm                                                                                    | 0.5 m          |                                                                                           | 1414733 1 |                |                                                                                           |             |
| 9 mm ... 14 mm                                                                                    | 1 m            |                                                                                           | 1414734 1 |                |                                                                                           |             |
| <b>Panel feed-through, with M20 x 1.5 mounting flange, without QUICKON nut</b>                    |                |                                                                                           |           |                |                                                                                           |             |
|                                                                                                   | 0.5 m          |                                                                                           |           | 1414690 1      | 1414681 1                                                                                 |             |
|                                                                                                   | 1 m            |                                                                                           |           | 1414691 1      | 1414682 1                                                                                 |             |
| <b>Panel feed-through, with M25 x 1.5 mounting flange, without QUICKON nut</b>                    |                |                                                                                           |           |                |                                                                                           |             |
|                                                                                                   | 0.5 m          |                                                                                           |           |                |                                                                                           | 1414736 1   |
|                                                                                                   | 1 m            |                                                                                           |           |                |                                                                                           | 1414737 1   |
| <b>QUICKON nut, for connections up to 1.5 mm<sup>2</sup>, for cable diameter:</b>                 |                |                                                                                           |           |                |                                                                                           |             |
| 4 mm ... 9 mm                                                                                     |                |                                                                                           |           | 1415099 1      | 1415097 1                                                                                 |             |
| 8 mm ... 13 mm                                                                                    |                |                                                                                           |           | 1415100 1      | 1415098 1                                                                                 |             |
| 5 mm ... 10 mm                                                                                    |                |                                                                                           |           |                |                                                                                           | 1415101 1   |
| 9 mm ... 14 mm                                                                                    |                |                                                                                           |           |                |                                                                                           | 1415104 1   |

# Installation system

## 1.5 mm² installation system

### Panel feed-throughs, 1.5 mm², with manual solder/slip-on connection

- Devices no longer need to be opened in order to connect the cables
- User-friendly connection, even on devices that are difficult to access
- Also available as gray color versions
- Touch-proof in accordance with DIN EN 50274

new

new



With QUICKON nut



Without QUICKON nut

|                                                                                                            | Technical data |                                           |           | Technical data |                                           |             |
|------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------|-----------|----------------|-------------------------------------------|-------------|
|                                                                                                            | 2+PE-pos.      | 3+PE-pos.                                 | 4+PE-pos. | 2+PE-pos.      | 3+PE-pos.                                 | 4+PE-pos.   |
| General data                                                                                               |                |                                           |           |                |                                           |             |
| Degree of protection                                                                                       |                | IP68 / IP69K                              |           |                | IP68 / IP69K                              |             |
| Electrical data                                                                                            |                |                                           |           |                |                                           |             |
| Rated voltage (III/3)                                                                                      |                | 690 V                                     |           |                | 690 V                                     |             |
| Rated surge voltage                                                                                        |                | 6 kV                                      |           |                | 6 kV                                      |             |
| Rated current                                                                                              |                | 17.5 A                                    |           |                | 17.5 A                                    |             |
| Surge voltage category/pollution degree                                                                    |                | III / 3                                   |           |                | III / 3                                   |             |
| Material data                                                                                              |                |                                           |           |                |                                           |             |
| Housing material                                                                                           |                | PA                                        |           |                | PA                                        |             |
| Contact material                                                                                           |                | Cu                                        |           |                | Cu                                        |             |
| Inflammability class according to UL 94                                                                    |                | V0                                        |           |                | V0                                        |             |
| Mechanical data                                                                                            |                |                                           |           |                |                                           |             |
| Impact category                                                                                            |                | IK07                                      |           |                | IK07                                      |             |
| Color                                                                                                      |                | Black                                     |           |                | Black                                     |             |
| Connector data QUICKON connection                                                                          |                |                                           |           |                |                                           |             |
| Core insulation                                                                                            |                | PVC/PE/TPE/rubber                         |           |                | PVC/PE/TPE/rubber                         |             |
| Structure of individual litz wire/smallest wire diameter                                                   |                | VDE 0295 class 1 to 6/min. 0.15 mm        |           |                | VDE 0295 class 1 to 6/min. 0.15 mm        |             |
| Connection frequency                                                                                       |                | max. 10                                   |           |                | max. 10                                   |             |
| Conductor cross section [mm²] solid/stranded                                                               |                | 0.5 mm² ... 1.5 mm² / 0.5 mm² ... 1.5 mm² |           |                | 0.5 mm² ... 1.5 mm² / 0.5 mm² ... 1.5 mm² |             |
| Conductor cross section [AWG]                                                                              |                | 20 ... 16                                 |           |                | 20 ... 16                                 |             |
| Temperature data                                                                                           |                |                                           |           |                |                                           |             |
| Ambient temperature (operation)                                                                            |                | -40 °C ... 80 °C                          |           |                | -40 °C ... 80 °C                          |             |
| Temperature when conductor connected                                                                       |                | -5 °C ... 50 °C                           |           |                | -5 °C ... 50 °C                           |             |
|                                                                                                            | Ordering data  |                                           |           | Ordering data  |                                           |             |
|                                                                                                            | Order No.      | Pcs. / Pkt.                               | Order No. | Pcs. / Pkt.    | Order No.                                 | Pcs. / Pkt. |
|                                                                                                            | 2+PE-pos.      |                                           | 3+PE-pos. |                | 4+PE-pos.                                 |             |
| <b>Panel feed-through</b> , with M20 x 1.5 mounting flange, <b>with QUICKON nut</b> , for cable diameter:  |                |                                           |           |                |                                           |             |
| 4 mm ... 9 mm                                                                                              | 1414686        | 1                                         | 1414677   | 1              |                                           |             |
| 8 mm ... 13 mm                                                                                             | 1414689        | 1                                         | 1414680   | 1              |                                           |             |
| <b>Panel feed-through</b> , with M25 x 1.5 mounting flange, <b>with QUICKON nut</b> , for cable diameters: |                |                                           |           |                |                                           |             |
| 5 mm ... 10 mm                                                                                             |                |                                           |           |                | 1414732                                   | 1           |
| 9 mm ... 14 mm                                                                                             |                |                                           |           |                | 1414735                                   | 1           |
| <b>Panel feed-through</b> , with M20 x 1.5 mounting flange, <b>without QUICKON nut</b>                     |                |                                           |           |                |                                           |             |
|                                                                                                            |                |                                           |           |                | 1414692                                   | 1           |
|                                                                                                            |                |                                           |           |                | 1414683                                   | 1           |
| <b>Panel feed-through</b> , with M25 x 1.5 mounting flange, <b>without QUICKON nut</b>                     |                |                                           |           |                |                                           | 1414738 1   |
| <b>QUICKON nut</b> , for connections up to 1.5 mm², for cable diameter:                                    |                |                                           |           |                |                                           |             |
| 4 mm ... 9 mm                                                                                              |                |                                           |           |                | 1415099                                   | 1           |
| 8 mm ... 13 mm                                                                                             |                |                                           |           |                | 1415100                                   | 1           |
| 5 mm ... 10 mm                                                                                             |                |                                           |           |                | 1415097                                   | 1           |
| 9 mm ... 14 mm                                                                                             |                |                                           |           |                | 1415098                                   | 1           |
|                                                                                                            |                |                                           |           |                |                                           | 1415101 1   |
|                                                                                                            |                |                                           |           |                |                                           | 1415104 1   |

Connector, 1.5 mm<sup>2</sup>

new

- With capacitive PE contact
- Compatible with QUICKON connection
- Can be coded using the two red coding profiles to prevent incorrect connection of similar connectors
- Touch-proof in accordance with DIN EN 50274
- Also available as gray color versions
- With SPEEDCON fast locking system



|                                                          |  | Technical data |  |                                           |  |           |  |
|----------------------------------------------------------|--|----------------|--|-------------------------------------------|--|-----------|--|
|                                                          |  | 2+PE-pos.      |  | 3+PE-pos.                                 |  | 4+PE-pos. |  |
| General data                                             |  |                |  |                                           |  |           |  |
| Degree of protection                                     |  |                |  | IP68 / IP69K                              |  |           |  |
| Electrical data                                          |  |                |  |                                           |  |           |  |
| Rated voltage (III/3)                                    |  |                |  | 690 V                                     |  |           |  |
| Rated surge voltage                                      |  |                |  | 6 kV                                      |  |           |  |
| Rated current                                            |  |                |  | 17.5 A                                    |  |           |  |
| Surge voltage category/pollution degree                  |  |                |  | III / 3                                   |  |           |  |
| Material data                                            |  |                |  |                                           |  |           |  |
| Housing material                                         |  |                |  | PA                                        |  |           |  |
| Contact material                                         |  |                |  | Cu                                        |  |           |  |
| Contact surface material                                 |  |                |  | Silver-plated                             |  |           |  |
| Inflammability class according to UL 94                  |  |                |  | V0                                        |  |           |  |
| Impact category                                          |  |                |  | IK07                                      |  |           |  |
| Color                                                    |  |                |  | Black                                     |  |           |  |
| Connector data QUICKON connection                        |  |                |  |                                           |  |           |  |
| Core insulation                                          |  |                |  | PVC/PE/TPE/rubber                         |  |           |  |
| Structure of individual litz wire/smallest wire diameter |  |                |  | VDE 0295 class 1 to 6/min. 0.15 mm        |  |           |  |
| Connection frequency                                     |  |                |  | 10                                        |  |           |  |
| Conductor cross section [mm²] solid/stranded             |  |                |  | 0.5 mm² ... 1.5 mm² / 0.5 mm² ... 1.5 mm² |  |           |  |
| Conductor cross section [AWG]                            |  |                |  | 20 ... 16                                 |  |           |  |
| Temperature data                                         |  |                |  |                                           |  |           |  |
| Ambient temperature (operation)                          |  |                |  | -40 °C ... 80 °C                          |  |           |  |
| Temperature when conductor connected                     |  |                |  | -5 °C ... 50 °C                           |  |           |  |
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# Installation system

## 1.5 mm² installation system

### Accessories

- Plastic labels ③ can be stuck to the middle of the H-distributor
- Red sealing plugs ④ can be easily stuck into the QUICKON nuts and create a seal when screwed tight
- Protective caps with retaining cords ⑤ for closing open QUICKON domes which are going to have a connector (for example) fitted at a later date
- Locking nuts ⑥ for fixing the panel feed-throughs to thin panels that are unable to accommodate a proprietary thread
- Insulating sleeve ⑦ for 4.8 mm slip-on connections
- Transparent protective caps ⑧ for attaching to the open QUICKON dome
- Transparent protective caps ⑨ at front for attaching to the connector
- Slotted socket wrenches ⑩ enable you to tighten the QUICKON nuts easily and securely
- Red coding profiles ⑪ for preventing QPD connector mix-ups. Simply insert them into the QUICKON dome and connector on the front side. They are marked with an arrow and their symmetrical form enables them to be mounted in four different positions
- Aluminum shielding tape ⑬ prevents the splicing of the braided shield and enables a clean shield connection



| Description                                                                                                                                     |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Plastic label</b> ③<br>For plotting and engraving<br>Can be printed using thermal transfer printer                                           |  |
| <b>Closing cap</b> , for closing unused bore holes in multiple seals and cable glands ④<br><br>Ø 10 mm<br>Ø 14 mm                               |  |
| <b>Protective cap</b> , captive, IP68 ⑤<br>Color: gray<br>Color: gray                                                                           |  |
| <b>Counter nut</b> , (plastic), to lock the contact carrier from the inside of the device ⑥<br>M20/SW26/color: green<br>M25 /SW32/color: black  |  |
| <b>Insulating sleeve</b> , ⑦<br>as shock protection for 4.8 mm slip-on sleeves;<br>first slide over the conductor<br>For 4.8 mm slip-on sleeves |  |
| <b>Protective cap</b> , transparent plastic, for QUICKON connection, IP54 ⑧                                                                     |  |
| <b>Protective cap</b> , transparent plastic, for QUICKON connection, IP50 ⑨                                                                     |  |
| <b>Slotted socket wrench</b> for QUICKON nuts and panel feed-throughs, for wrench size: ⑩<br><br>15 mm<br>19 mm<br>22 mm                        |  |
| <b>Coding profile</b> , for insertion into the connector and QUICKON dome ⑪                                                                     |  |
| <b>Shielding tape</b> , for shielded QPD versions ⑬                                                                                             |  |

| Ordering data                                  |           |             |
|------------------------------------------------|-----------|-------------|
| Type                                           | Order No. | Pcs. / Pkt. |
| GPE 13X 9 WH<br>EMLP (13X9)R                   | 0806932   | 10          |
|                                                | 0819453   | 1           |
| SEALING PLUG 10X16 RD<br>SEALING PLUG 14X22 RD | 1400284   | 10          |
|                                                | 1400270   | 10          |
| QPD QSK BK 3/4X1,5 FS<br>QPD QSK BK 5X1,5 FS   | 1414722   | 1           |
|                                                | 1414728   | 1           |
| Q-MU M20<br>Q-MU M25                           | 1640702   | 25          |
|                                                | 1640715   | 25          |
| PT/FS 4,8                                      | 1670497   | 25          |
| QPD QSK 3/4X1,5<br>QPD QSK 5X1,5               | 1414723   | 10          |
|                                                | 1414758   | 10          |
| QPD PSK 3/4X1,5<br>QPD PSK 5X1,5               | 1414724   | 10          |
|                                                | 1414759   | 10          |
| QSS 15<br>QSS 19<br>QSS 22                     | 1641992   | 1           |
|                                                | 1670895   | 1           |
|                                                | 1670206   | 1           |
| CP-QPD 3/4X1,5<br>CP-QPD 5X1,5                 | 1414729   | 10          |
|                                                | 1414760   | 10          |
| ALU-SB                                         | 1404531   | 100         |

**H-distributor, 2.5 mm<sup>2</sup>**

- Can be used as a H-distributor with continuous master cable
- Can be used as a star distributor
- Can be used as a Y-distributor with a test connection
- Touch-proof in accordance with DIN EN 50274
- Also available as gray color versions



With four QUICKON nuts



Without QUICKON nut



| Technical data                                            |                                                                                       |           |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------|-----------|
|                                                           | 3+PE-pos.                                                                             | 4+PE-pos. |
| General data                                              |                                                                                       |           |
| Degree of protection                                      | IP68 / IP69K                                                                          |           |
| Electrical data                                           |                                                                                       |           |
| Rated voltage (III/3)                                     | 690 V                                                                                 |           |
| Rated surge voltage                                       | 6 kV                                                                                  |           |
| Rated current                                             | 20 A                                                                                  |           |
| Surge voltage category/pollution degree                   | III / 3                                                                               |           |
| Material data                                             |                                                                                       |           |
| Housing material                                          | PA                                                                                    |           |
| Contact material                                          | Cu                                                                                    |           |
| Inflammability class according to UL 94                   | V0                                                                                    |           |
| Mechanical data                                           |                                                                                       |           |
| Impact category                                           | IK07                                                                                  |           |
| Color                                                     | Black                                                                                 |           |
| Connector data QUICKON connection                         |                                                                                       |           |
| Core insulation                                           | PVC/PE/TPE/rubber                                                                     |           |
| Structure of individual litz wire/smallest wire diameter  | VDE 0295 class 1 to 6/min. 0.15 mm                                                    |           |
| Connection frequency                                      | max. 10                                                                               |           |
| Conductor cross section [mm <sup>2</sup> ] solid/stranded | 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |           |
| Conductor cross section [AWG]                             | 16 ... 14                                                                             |           |
| Temperature data                                          |                                                                                       |           |
| Ambient temperature (operation)                           | -40 °C ... 80 °C                                                                      |           |
| Temperature when conductor connected                      | -5 °C ... 50 °C                                                                       |           |

| Description                                                                                |
|--------------------------------------------------------------------------------------------|
| <b>H-distributor, with four QUICKON nuts and one sealing bolt,</b><br>for cable diameters: |
| 6 mm ... 10 mm                                                                             |
| 9 mm ... 14 mm                                                                             |
| 6 mm ... 11 mm                                                                             |
| 9 mm ... 16 mm                                                                             |
| <b>H-distributor, without QUICKON nuts</b>                                                 |
| <b>QUICKON nut, for connections up to 2.5 mm<sup>2</sup>,</b><br>for cable diameters:      |
| 6 mm ... 10 mm                                                                             |
| 9 mm ... 14 mm                                                                             |
| 6 mm ... 11 mm                                                                             |
| 9 mm ... 16 mm                                                                             |

| Ordering data |             |           |             |
|---------------|-------------|-----------|-------------|
| Order No.     | Pcs. / Pkt. | Order No. | Pcs. / Pkt. |
| 3+PE-pos.     |             | 4+PE-pos. |             |
| 1582145       | 1           |           |             |
| 1582148       | 1           |           |             |
|               |             | 1406368   | 1           |
|               |             | 1406369   | 1           |



| Technical data                                            |                                                                                       |           |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------|-----------|
|                                                           | 3+PE-pos.                                                                             | 4+PE-pos. |
| General data                                              |                                                                                       |           |
| Degree of protection                                      | IP68 / IP69K                                                                          |           |
| Electrical data                                           |                                                                                       |           |
| Rated voltage (III/3)                                     | 690 V                                                                                 |           |
| Rated surge voltage                                       | 6 kV                                                                                  |           |
| Rated current                                             | 20 A                                                                                  |           |
| Surge voltage category/pollution degree                   | III / 3                                                                               |           |
| Material data                                             |                                                                                       |           |
| Housing material                                          | PA                                                                                    |           |
| Contact material                                          | Cu                                                                                    |           |
| Inflammability class according to UL 94                   | V0                                                                                    |           |
| Mechanical data                                           |                                                                                       |           |
| Impact category                                           | IK07                                                                                  |           |
| Color                                                     | Black                                                                                 |           |
| Connector data QUICKON connection                         |                                                                                       |           |
| Core insulation                                           | PVC/PE/TPE/rubber                                                                     |           |
| Structure of individual litz wire/smallest wire diameter  | VDE 0295 class 1 to 6/min. 0.15 mm                                                    |           |
| Connection frequency                                      | max. 10                                                                               |           |
| Conductor cross section [mm <sup>2</sup> ] solid/stranded | 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |           |
| Conductor cross section [AWG]                             | 16 ... 14                                                                             |           |
| Temperature data                                          |                                                                                       |           |
| Ambient temperature (operation)                           | -40 °C ... 80 °C                                                                      |           |
| Temperature when conductor connected                      | -5 °C ... 50 °C                                                                       |           |

| Ordering data |             |           |             |
|---------------|-------------|-----------|-------------|
| Order No.     | Pcs. / Pkt. | Order No. | Pcs. / Pkt. |
| 3+PE-pos.     |             | 4+PE-pos. |             |
| 1582154       | 1           | 1406370   | 1           |
| 1582226       | 1           |           |             |
| 1582229       | 1           |           |             |
|               |             | 1459663   | 1           |
|               |             | 1459647   | 1           |

# Installation system

## 2.5 mm<sup>2</sup> installation system

### T-distributor, 2.5 mm<sup>2</sup>

- Can be used as a T-distributor with continuous master cable
- Touch-proof in accordance with DIN EN 50274
- Also available as gray color versions



With three QUICKON nuts



With two QUICKON nuts



#### Technical data

##### 4+PE-pos.

|                                                           |                                                                                       |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------|
| General data                                              |                                                                                       |
| Degree of protection                                      | IP68 / IP69K                                                                          |
| Electrical data                                           |                                                                                       |
| Rated voltage (III/3)                                     | 690 V                                                                                 |
| Rated surge voltage                                       | 6 kV                                                                                  |
| Rated current                                             | 20 A                                                                                  |
| Surge voltage category/pollution degree                   | III / 3                                                                               |
| Material data                                             |                                                                                       |
| Housing material                                          | PA                                                                                    |
| Contact material                                          | Cu                                                                                    |
| Inflammability class according to UL 94                   | V0                                                                                    |
| Mechanical data                                           |                                                                                       |
| Impact category                                           | IK07                                                                                  |
| Color                                                     | Black                                                                                 |
| Connector data QUICKON connection                         |                                                                                       |
| Core insulation                                           | PVC/PE/TPE/rubber                                                                     |
| Structure of individual litz wire/smallest wire diameter  | VDE 0295 class 1 to 6/min. 0.15 mm                                                    |
| Connection frequency                                      | max. 10                                                                               |
| Conductor cross section [mm <sup>2</sup> ] solid/stranded | 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section [AWG]                             | 16 ... 14                                                                             |
| Temperature data                                          |                                                                                       |
| Ambient temperature (operation)                           | -40 °C ... 80 °C                                                                      |
| Temperature when conductor connected                      | -5 °C ... 50 °C                                                                       |

#### Ordering data

| Description                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------|
| <b>T-distributor</b> , for cable diameter:<br>6 mm ... 11 mm<br>9 mm ... 16 mm                                               |
| <b>QUICKON nut</b> , for connections up to 2.5 mm <sup>2</sup> ,<br>for cable diameters:<br>6 mm ... 11 mm<br>9 mm ... 16 mm |

| Type                | Order No. | Pcs. / Pkt. |
|---------------------|-----------|-------------|
| QPD T 4PE 3X6-11 BK | 1405401   | 1           |
| QPD T 4PE 3X9-16 BK | 1405402   | 1           |



#### Technical data

##### 4+PE-pos.

|                                                           |                                                                                       |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------|
| General data                                              |                                                                                       |
| Degree of protection                                      | IP68 / IP69K                                                                          |
| Electrical data                                           |                                                                                       |
| Rated voltage (III/3)                                     | 690 V                                                                                 |
| Rated surge voltage                                       | 6 kV                                                                                  |
| Rated current                                             | 20 A                                                                                  |
| Surge voltage category/pollution degree                   | III / 3                                                                               |
| Material data                                             |                                                                                       |
| Housing material                                          | PA                                                                                    |
| Contact material                                          | Cu                                                                                    |
| Inflammability class according to UL 94                   | V0                                                                                    |
| Mechanical data                                           |                                                                                       |
| Impact category                                           | IK07                                                                                  |
| Color                                                     | Black                                                                                 |
| Connector data QUICKON connection                         |                                                                                       |
| Core insulation                                           | PVC/PE/TPE/rubber                                                                     |
| Structure of individual litz wire/smallest wire diameter  | VDE 0295 class 1 to 6/min. 0.15 mm                                                    |
| Connection frequency                                      | max. 10                                                                               |
| Conductor cross section [mm <sup>2</sup> ] solid/stranded | 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section [AWG]                             | 16 ... 14                                                                             |
| Temperature data                                          |                                                                                       |
| Ambient temperature (operation)                           | -40 °C ... 80 °C                                                                      |
| Temperature when conductor connected                      | -5 °C ... 50 °C                                                                       |

#### Ordering data

| Type                 | Order No. | Pcs. / Pkt. |
|----------------------|-----------|-------------|
| QPD T 4PE 2X6-11 BK  | 1405403   | 1           |
| QPD T 4PE 2X9-16 BK  | 1405404   | 1           |
| QPD N 4PE2,5 6-11 BK | 1459663   | 1           |
| QPD N 4PE2,5 9-16 BK | 1459647   | 1           |

# Cable connector, 2.5 mm<sup>2</sup>

- Easy cable extension or cable repairs
- The QUICKON connections at opposite ends feature different position markings and mechanical coding
- The 2.5 mm<sup>2</sup> connector can be used here instead of the QUICKON nut
- Also available as gray color versions



With two QUICKON nuts



With one QUICKON nut



## Technical data

|                                                           |  | 3+PE-pos.                                                                             | 4+PE-pos. |
|-----------------------------------------------------------|--|---------------------------------------------------------------------------------------|-----------|
| General data                                              |  |                                                                                       |           |
| Degree of protection                                      |  | IP68 / IP69K                                                                          |           |
| Electrical data                                           |  |                                                                                       |           |
| Rated voltage (III/3)                                     |  | 690 V                                                                                 |           |
| Rated surge voltage                                       |  | 6 kV                                                                                  |           |
| Rated current                                             |  | 20 A                                                                                  |           |
| Surge voltage category/pollution degree                   |  | III / 3                                                                               |           |
| Material data                                             |  |                                                                                       |           |
| Housing material                                          |  | PA                                                                                    |           |
| Contact material                                          |  | Cu                                                                                    |           |
| Contact surface material                                  |  | Silver-plated                                                                         |           |
| Inflammability class according to UL 94                   |  | V0                                                                                    |           |
| Impact category                                           |  | IK07                                                                                  |           |
| Color                                                     |  | Black                                                                                 |           |
| Connector data QUICKON connection                         |  |                                                                                       |           |
| Core insulation                                           |  | PVC/PE/TPE/rubber                                                                     |           |
| Structure of individual litz wire/smallest wire diameter  |  | VDE 0295 class 1 to 6/min. 0.15 mm                                                    |           |
| Connection frequency                                      |  | 10                                                                                    |           |
| Conductor cross section [mm <sup>2</sup> ] solid/stranded |  | 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |           |
| Conductor cross section [AWG]                             |  | 16 ... 14                                                                             |           |
| Temperature data                                          |  |                                                                                       |           |
| Ambient temperature (operation)                           |  | -40 °C ... 80 °C                                                                      |           |
| Temperature when conductor connected                      |  | -5 °C ... 50 °C                                                                       |           |

## Ordering data

| Description                                                                           | Order No. | Pcs. / Pkt. | Order No. | Pcs. / Pkt. |
|---------------------------------------------------------------------------------------|-----------|-------------|-----------|-------------|
|                                                                                       | 3+PE-pos. |             | 4+PE-pos. |             |
| <b>Cable connector</b> , for cable diameter:                                          |           |             |           |             |
| 6 mm ... 10 mm                                                                        | 1582211   | 1           |           |             |
| 9 mm ... 14 mm                                                                        | 1582214   | 1           |           |             |
| 6 mm ... 11 mm                                                                        |           |             | 1403838   | 1           |
| 9 mm ... 16 mm                                                                        |           |             | 1403836   | 1           |
| <b>QUICKON nut</b> , for connections up to 2.5 mm <sup>2</sup> , for cable diameters: |           |             |           |             |
| 6 mm ... 10 mm                                                                        |           |             |           |             |
| 9 mm ... 14 mm                                                                        |           |             |           |             |
| 6 mm ... 11 mm                                                                        |           |             |           |             |
| 9 mm ... 16 mm                                                                        |           |             |           |             |



## Technical data

|                                                           |  | 3+PE-pos.                                                                             | 4+PE-pos. |
|-----------------------------------------------------------|--|---------------------------------------------------------------------------------------|-----------|
| General data                                              |  |                                                                                       |           |
| Degree of protection                                      |  | IP68 / IP69K                                                                          |           |
| Electrical data                                           |  |                                                                                       |           |
| Rated voltage (III/3)                                     |  | 690 V                                                                                 |           |
| Rated surge voltage                                       |  | 6 kV                                                                                  |           |
| Rated current                                             |  | 20 A                                                                                  |           |
| Surge voltage category/pollution degree                   |  | III / 3                                                                               |           |
| Material data                                             |  |                                                                                       |           |
| Housing material                                          |  | PA                                                                                    |           |
| Contact material                                          |  | Cu                                                                                    |           |
| Contact surface material                                  |  | Silver-plated                                                                         |           |
| Inflammability class according to UL 94                   |  | V0                                                                                    |           |
| Impact category                                           |  | IK07                                                                                  |           |
| Color                                                     |  | Black                                                                                 |           |
| Connector data QUICKON connection                         |  |                                                                                       |           |
| Core insulation                                           |  | PVC/PE/TPE/rubber                                                                     |           |
| Structure of individual litz wire/smallest wire diameter  |  | VDE 0295 class 1 to 6/min. 0.15 mm                                                    |           |
| Connection frequency                                      |  | 10                                                                                    |           |
| Conductor cross section [mm <sup>2</sup> ] solid/stranded |  | 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |           |
| Conductor cross section [AWG]                             |  | 16 ... 14                                                                             |           |
| Temperature data                                          |  |                                                                                       |           |
| Ambient temperature (operation)                           |  | -40 °C ... 80 °C                                                                      |           |
| Temperature when conductor connected                      |  | -5 °C ... 50 °C                                                                       |           |

## Ordering data

| Order No. | Pcs. / Pkt. | Order No. | Pcs. / Pkt. |
|-----------|-------------|-----------|-------------|
| 3+PE-pos. |             | 4+PE-pos. |             |
| 1582220   | 1           |           |             |
| 1582223   | 1           | 1403834   | 1           |
|           |             | 1403831   | 1           |
| 1582226   | 1           |           |             |
| 1582229   | 1           | 1459663   | 1           |
|           |             | 1459647   | 1           |

# Installation system

## 2.5 mm<sup>2</sup> installation system

### Panel feed-throughs, 2.5 mm<sup>2</sup>, with litz wires

- Devices no longer need to be opened in order to connect the cables
- User-friendly connection, even on devices that are difficult to access
- Touch-proof in accordance with DIN EN 50274
- Also available as gray color versions



With QUICKON nut



Without QUICKON nut



| Technical data                                                                        |           |
|---------------------------------------------------------------------------------------|-----------|
| 3+PE-pos.                                                                             | 4+PE-pos. |
| IP68 / IP69K                                                                          |           |
| 690 V                                                                                 |           |
| 6 kV                                                                                  |           |
| 20 A                                                                                  |           |
| III / 3                                                                               |           |
| PA                                                                                    |           |
| Cu                                                                                    |           |
| V0                                                                                    |           |
| IK07                                                                                  |           |
| Black                                                                                 |           |
| PVC/PE/TPE/rubber                                                                     |           |
| VDE 0295 class 1 to 6/min. 0.15 mm                                                    |           |
| max. 10                                                                               |           |
| 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |           |
| 16 ... 14                                                                             |           |
| -40 °C ... 80 °C                                                                      |           |
| -5 °C ... 50 °C                                                                       |           |

| Ordering data |             |           |             |
|---------------|-------------|-----------|-------------|
| Order No.     | Pcs. / Pkt. | Order No. | Pcs. / Pkt. |
| 3+PE-pos.     |             | 4+PE-pos. |             |



| Technical data                                                                        |           |
|---------------------------------------------------------------------------------------|-----------|
| 3+PE-pos.                                                                             | 4+PE-pos. |
| IP68 / IP69K                                                                          |           |
| 690 V                                                                                 |           |
| 6 kV                                                                                  |           |
| 20 A                                                                                  |           |
| III / 3                                                                               |           |
| PA                                                                                    |           |
| Cu                                                                                    |           |
| V0                                                                                    |           |
| IK07                                                                                  |           |
| Black                                                                                 |           |
| PVC/PE/TPE/rubber                                                                     |           |
| VDE 0295 class 1 to 6/min. 0.15 mm                                                    |           |
| max. 10                                                                               |           |
| 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |           |
| 16 ... 14                                                                             |           |
| -40 °C ... 80 °C                                                                      |           |
| -5 °C ... 50 °C                                                                       |           |

| Ordering data |             |           |             |
|---------------|-------------|-----------|-------------|
| Order No.     | Pcs. / Pkt. | Order No. | Pcs. / Pkt. |
| 3+PE-pos.     |             | 4+PE-pos. |             |

| General data                                              |
|-----------------------------------------------------------|
| Degree of protection                                      |
| Electrical data                                           |
| Rated voltage (III/3)                                     |
| Rated surge voltage                                       |
| Rated current                                             |
| Surge voltage category/pollution degree                   |
| Material data                                             |
| Housing material                                          |
| Contact material                                          |
| Inflammability class according to UL 94                   |
| Mechanical data                                           |
| Impact category                                           |
| Color                                                     |
| Connector data QUICKON connection                         |
| Core insulation                                           |
| Structure of individual litz wire/smallest wire diameter  |
| Connection frequency                                      |
| Conductor cross section [mm <sup>2</sup> ] solid/stranded |
| Conductor cross section [AWG]                             |
| Temperature data                                          |
| Ambient temperature (operation)                           |
| Temperature when conductor connected                      |

| Description | Cable length |
|-------------|--------------|
|-------------|--------------|

**Panel feed-through, I<sub>N</sub>=15 A, with M20 x 1.5 mounting flange, with QUICKON nut, for cable diameters:**

|                |       |
|----------------|-------|
| 6 mm ... 11 mm | 0.5 m |
| 6 mm ... 11 mm | 1 m   |
| 9 mm ... 16 mm | 0.5 m |
| 9 mm ... 16 mm | 1 m   |

**Panel feed-through, with M25 x 1.5 mounting flange, with QUICKON nut, for cable diameters:**

|                |       |
|----------------|-------|
| 6 mm ... 10 mm | 0.5 m |
| 6 mm ... 10 mm | 1 m   |
| 9 mm ... 14 mm | 0.5 m |
| 9 mm ... 14 mm | 1 m   |
| 6 mm ... 11 mm | 0.5 m |
| 6 mm ... 11 mm | 1 m   |
| 9 mm ... 16 mm | 0.5 m |
| 9 mm ... 16 mm | 1 m   |

**Panel feed-through, with M20 x 1.5 mounting flange, without QUICKON nut**

|       |
|-------|
| 0.5 m |
| 1 m   |

**Panel feed-through, with M25 x 1.5 mounting flange, without QUICKON nut**

|       |
|-------|
| 0.5 m |
| 1 m   |

**QUICKON nut, for connections up to 2.5 mm<sup>2</sup>, for cable diameters:**

|                |
|----------------|
| 6 mm ... 10 mm |
| 9 mm ... 14 mm |
| 6 mm ... 11 mm |
| 9 mm ... 16 mm |

|         |   |
|---------|---|
| 1403725 | 1 |
| 1403727 | 1 |
| 1403731 | 1 |
| 1403733 | 1 |

|         |   |
|---------|---|
| 1582163 | 1 |
| 1582160 | 1 |
| 1582175 | 1 |
| 1582172 | 1 |

|         |   |
|---------|---|
| 1582557 | 1 |
| 1582558 | 1 |
| 1582561 | 1 |
| 1582562 | 1 |

|         |   |
|---------|---|
| 1403737 | 1 |
| 1403739 | 1 |

|         |   |         |   |
|---------|---|---------|---|
| 1582187 | 1 | 1582565 | 1 |
| 1582190 | 1 | 1582566 | 1 |

|         |   |         |   |
|---------|---|---------|---|
| 1582226 | 1 |         |   |
| 1582229 | 1 |         |   |
|         |   | 1459663 | 1 |
|         |   | 1459647 | 1 |

## Panel feed-throughs, 2.5 mm<sup>2</sup>, with manual solder/slip-on connection

- Devices no longer need to be opened in order to connect the cables
- User-friendly connection, even on devices that are difficult to access
- Also available as gray color versions



With QUICKON nut



Without QUICKON nut



| Technical data                                                                        |  |           |  |
|---------------------------------------------------------------------------------------|--|-----------|--|
| 3+PE-pos.                                                                             |  | 4+PE-pos. |  |
| IP68 / IP69K                                                                          |  |           |  |
| 690 V                                                                                 |  |           |  |
| 20 A                                                                                  |  | 15 A      |  |
| 6 kV                                                                                  |  |           |  |
| III / 3                                                                               |  |           |  |
| PA                                                                                    |  |           |  |
| Cu                                                                                    |  |           |  |
| V0                                                                                    |  |           |  |
| IK07                                                                                  |  |           |  |
| Black                                                                                 |  |           |  |
| PVC/PE/TPE/rubber                                                                     |  |           |  |
| VDE 0295 class 1 to 6/min. 0.15 mm                                                    |  |           |  |
| max. 10                                                                               |  |           |  |
| 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |  |           |  |
| 16 ... 14                                                                             |  |           |  |
| -40 °C ... 80 °C                                                                      |  |           |  |
| -5 °C ... 50 °C                                                                       |  |           |  |

|                                                           |
|-----------------------------------------------------------|
| General data                                              |
| Degree of protection                                      |
| Electrical data                                           |
| Rated voltage (III/3)                                     |
| Rated surge voltage                                       |
| Rated current                                             |
| Surge voltage category/pollution degree                   |
| Material data                                             |
| Housing material                                          |
| Contact material                                          |
| Inflammability class according to UL 94                   |
| Mechanical data                                           |
| Impact category                                           |
| Color                                                     |
| Connector data QUICKON connection                         |
| Core insulation                                           |
| Structure of individual litz wire/smallest wire diameter  |
| Connection frequency                                      |
| Conductor cross section [mm <sup>2</sup> ] solid/stranded |
| Conductor cross section [AWG]                             |
| Temperature data                                          |
| Ambient temperature (operation)                           |
| Temperature when conductor connected                      |



| Technical data                                                                        |  |           |      |
|---------------------------------------------------------------------------------------|--|-----------|------|
| 3+PE-pos.                                                                             |  | 4+PE-pos. |      |
|                                                                                       |  |           |      |
| IP68 / IP69K                                                                          |  |           |      |
| 690 V                                                                                 |  |           |      |
| 6 kV                                                                                  |  |           |      |
| 20 A                                                                                  |  |           | 15 A |
| III / 3                                                                               |  |           |      |
|                                                                                       |  |           |      |
| PA                                                                                    |  |           |      |
| Cu                                                                                    |  |           |      |
| V0                                                                                    |  |           |      |
|                                                                                       |  |           |      |
| IK07                                                                                  |  |           |      |
| Black                                                                                 |  |           |      |
|                                                                                       |  |           |      |
| PVC/PE/TPE/rubber                                                                     |  |           |      |
| VDE 0295 class 1 to 6/min. 0.15 mm                                                    |  |           |      |
| max. 10                                                                               |  |           |      |
| 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |  |           |      |
| 16 ... 14                                                                             |  |           |      |
|                                                                                       |  |           |      |
| -40 °C ... 80 °C                                                                      |  |           |      |
| -5 °C ... 50 °C                                                                       |  |           |      |

|                                                           |
|-----------------------------------------------------------|
| General data                                              |
| Degree of protection                                      |
| Electrical data                                           |
| Rated voltage (III/3)                                     |
| Rated surge voltage                                       |
| Rated current                                             |
| Surge voltage category/pollution degree                   |
| Material data                                             |
| Housing material                                          |
| Contact material                                          |
| Inflammability class according to UL 94                   |
| Mechanical data                                           |
| Impact category                                           |
| Color                                                     |
| Connector data QUICKON connection                         |
| Core insulation                                           |
| Structure of individual litz wire/smallest wire diameter  |
| Connection frequency                                      |
| Conductor cross section [mm <sup>2</sup> ] solid/stranded |
| Conductor cross section [AWG]                             |
| Temperature data                                          |
| Ambient temperature (operation)                           |
| Temperature when conductor connected                      |

| Ordering data                                                                                                    |             |           |             |
|------------------------------------------------------------------------------------------------------------------|-------------|-----------|-------------|
| 3+PE-pos.                                                                                                        |             | 4+PE-pos. |             |
| Order No.                                                                                                        | Pcs. / Pkt. | Order No. | Pcs. / Pkt. |
| Panel feed-through, I <sub>N</sub> =15 A, with M20 x 1.5 mounting flange, with QUICKON nut, for cable diameters: |             |           |             |
| 6 mm ... 11 mm                                                                                                   |             | 1403729   | 1           |
| 9 mm ... 16 mm                                                                                                   |             | 1403735   | 1           |
| Panel feed-through, with M25 x 1.5 mounting flange, with QUICKON nut, for cable diameters:                       |             |           |             |
| 6 mm ... 10 mm                                                                                                   | 1582166     |           | 1           |
| 9 mm ... 14 mm                                                                                                   | 1582178     |           | 1           |
| 6 mm ... 11 mm                                                                                                   |             | 1582559   | 1           |
| 9 mm ... 16 mm                                                                                                   |             | 1582563   | 1           |
| Panel feed-through, with mounting flange, without QUICKON nut, connecting thread: M20, I <sub>N</sub> =15 A      |             |           |             |
|                                                                                                                  |             | 1403741   | 1           |
| Panel feed-through, with M25 x 1.5 mounting flange, without QUICKON nut                                          |             |           |             |
| M25, I <sub>N</sub> =20 A                                                                                        |             |           |             |
| QUICKON nut, for connections up to 2.5 mm <sup>2</sup> , for cable diameters:                                    |             |           |             |
| 6 mm ... 10 mm                                                                                                   |             | 1582226   | 1           |
| 9 mm ... 14 mm                                                                                                   |             | 1582229   | 1           |
| 6 mm ... 11 mm                                                                                                   |             |           | 1459663     |
| 9 mm ... 16 mm                                                                                                   |             |           | 1459647     |

# Installation system

## 2.5 mm<sup>2</sup> installation system

### Panel feed-throughs, 2.5 mm<sup>2</sup>, with push-in connection

- Devices no longer need to be opened in order to connect the cables
- User-friendly connection, even on devices that are difficult to access
- For internal push-in connection, solid conductors are simply stripped and inserted in the connection
- Touch-proof in accordance with DIN EN 50274
- Also available as gray color versions



With QUICKON nut



Without QUICKON nut



#### Technical data

|                                                           | 3+PE-pos.                                                                                                                                                  | 4+PE-pos. |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| General data                                              |                                                                                                                                                            |           |
| Degree of protection                                      | IP68 / IP69K                                                                                                                                               |           |
| Electrical data                                           |                                                                                                                                                            |           |
| Rated voltage (III/3)                                     | 690 V                                                                                                                                                      |           |
| Rated surge voltage                                       | 6 kV                                                                                                                                                       |           |
| Rated current                                             | 20 A                                                                                                                                                       |           |
| Surge voltage category/pollution degree                   | III / 3                                                                                                                                                    |           |
| Material data                                             |                                                                                                                                                            |           |
| Housing material                                          | PA                                                                                                                                                         |           |
| Contact material                                          | Cu                                                                                                                                                         |           |
| Inflammability class according to UL 94                   | V0                                                                                                                                                         |           |
| Mechanical data                                           |                                                                                                                                                            |           |
| Impact category                                           | IK07                                                                                                                                                       |           |
| Color                                                     | Black                                                                                                                                                      |           |
| Connector data QUICKON connection                         |                                                                                                                                                            |           |
| Core insulation                                           | PVC/PE/rubber/TPE                                                                                                                                          |           |
| Structure of individual litz wire/smallest wire diameter  | VDE 0295 class 1 to 6/<br>min. 0.15 mm<br>max. 10<br>1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> /<br>1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup><br>16 ... 14 |           |
| Connection frequency                                      |                                                                                                                                                            |           |
| Conductor cross section [mm <sup>2</sup> ] solid/stranded |                                                                                                                                                            |           |
| Conductor cross section [AWG]                             |                                                                                                                                                            |           |
| Temperature data                                          |                                                                                                                                                            |           |
| Ambient temperature (operation)                           | -40 °C ... 80 °C                                                                                                                                           |           |
| Temperature when conductor connected                      | -5 °C ... 50 °C                                                                                                                                            |           |

#### Ordering data

| Description                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Panel feed-through</b> , with M25 x 1.5 mounting flange, <b>with</b> QUICKON nut, for cable diameters:<br>6 mm ... 10 mm<br>9 mm ... 14 mm<br>9 mm ... 14 mm<br>12 mm ... 20 mm<br><b>Panel feed-through</b> , with M25 x 1.5 mounting flange, <b>without</b> QUICKON nut<br><b>QUICKON nut</b> , for connections up to 2.5 mm <sup>2</sup> , for cable diameters:<br>6 mm ... 10 mm<br>9 mm ... 14 mm |

| Order No. | Pcs. / Pkt. | Order No. | Pcs. / Pkt. |
|-----------|-------------|-----------|-------------|
| 3+PE-pos. |             | 4+PE-pos. |             |
| 1582169   | 1           |           |             |
| 1582181   | 1           | 1410410   | 1           |
|           |             | 1410412   | 1           |



#### Technical data

|                                                           | 3+PE-pos.                                                                                                                                                  |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General data                                              |                                                                                                                                                            |
| Degree of protection                                      | IP68 / IP69K                                                                                                                                               |
| Electrical data                                           |                                                                                                                                                            |
| Rated voltage (III/3)                                     | 690 V                                                                                                                                                      |
| Rated surge voltage                                       | 6 kV                                                                                                                                                       |
| Rated current                                             | 20 A                                                                                                                                                       |
| Surge voltage category/pollution degree                   | III / 3                                                                                                                                                    |
| Material data                                             |                                                                                                                                                            |
| Housing material                                          | PA                                                                                                                                                         |
| Contact material                                          | Cu                                                                                                                                                         |
| Inflammability class according to UL 94                   | V0                                                                                                                                                         |
| Mechanical data                                           |                                                                                                                                                            |
| Impact category                                           | IK07                                                                                                                                                       |
| Color                                                     | Black                                                                                                                                                      |
| Connector data QUICKON connection                         |                                                                                                                                                            |
| Core insulation                                           | PVC/PE/rubber/TPE                                                                                                                                          |
| Structure of individual litz wire/smallest wire diameter  | VDE 0295 class 1 to 6/<br>min. 0.15 mm<br>max. 10<br>1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> /<br>1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup><br>16 ... 14 |
| Connection frequency                                      |                                                                                                                                                            |
| Conductor cross section [mm <sup>2</sup> ] solid/stranded |                                                                                                                                                            |
| Conductor cross section [AWG]                             |                                                                                                                                                            |
| Temperature data                                          |                                                                                                                                                            |
| Ambient temperature (operation)                           | -40 °C ... 80 °C                                                                                                                                           |
| Temperature when conductor connected                      | -5 °C ... 50 °C                                                                                                                                            |

#### Ordering data

| Order No. | Pcs. / Pkt. | Order No. | Pcs. / Pkt. |
|-----------|-------------|-----------|-------------|
| 3+PE-pos. |             |           |             |
| 1582193   | 1           |           |             |
| 1582226   | 1           |           |             |
| 1582229   | 1           |           |             |

Connector, 2.5 mm<sup>2</sup>

- With capacitive PE contact
- Compatible with QUICKON connection
- Can be coded using the two red coding profiles to prevent incorrect connection of similar connectors
- Touch-proof in accordance with DIN EN 50274
- Also available as gray color versions
- 5-pos. version with SPEEDCON fast locking system, cannot be released manually



With green screw locking



With black and gray screw locking



## Technical data

|                                                           | 3+PE-pos.                                                                                |  |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------|--|
| General data                                              |                                                                                          |  |
| Degree of protection                                      | IP68 / IP69K                                                                             |  |
| Electrical data                                           |                                                                                          |  |
| Rated voltage (III/3)                                     | 690 V                                                                                    |  |
| Rated surge voltage                                       | 6 kV                                                                                     |  |
| Rated current                                             | 20 A                                                                                     |  |
| Surge voltage category/pollution degree                   | III / 3                                                                                  |  |
| Material data                                             |                                                                                          |  |
| Housing material                                          | PA                                                                                       |  |
| Contact material                                          | Cu                                                                                       |  |
| Contact surface material                                  | Silver-plated                                                                            |  |
| Inflammability class according to UL 94                   | V0                                                                                       |  |
| Impact category                                           | IK07                                                                                     |  |
| Color                                                     | Black                                                                                    |  |
| Connector data QUICKON connection                         |                                                                                          |  |
| Core insulation                                           | PVC/PE/TPE/rubber                                                                        |  |
| Structure of individual litz wire/smallest wire diameter  | VDE 0295 class 1 to 6/<br>min. 0.15 mm                                                   |  |
| Connection frequency                                      | 10                                                                                       |  |
| Conductor cross section [mm <sup>2</sup> ] solid/stranded | 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> /<br>1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |  |
| Conductor cross section [AWG]                             | 16 ... 14                                                                                |  |
| Temperature data                                          |                                                                                          |  |
| Ambient temperature (operation)                           | -40 °C ... 80 °C                                                                         |  |
| Temperature when conductor connected                      | -5 °C ... 50 °C                                                                          |  |

## Ordering data

| Description                              | Order No. | Pcs. / Pkt. | Order No. | Pcs. / Pkt. |
|------------------------------------------|-----------|-------------|-----------|-------------|
|                                          | 3+PE-pos. |             |           |             |
| <b>Connectors</b> , for cable diameters: |           |             |           |             |
| 6 mm ... 10 mm                           | 1582202   | 1           |           |             |
| 9 mm ... 14 mm                           | 1582205   | 1           |           |             |
| 6 mm ... 11 mm                           |           |             |           |             |
| 9 mm ... 16 mm                           |           |             |           |             |



## Technical data

|                                                           | 3+PE-pos.                                                                                | 4+PE-pos. |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------|-----------|
| General data                                              |                                                                                          |           |
| Degree of protection                                      | IP68 / IP69K                                                                             |           |
| Electrical data                                           |                                                                                          |           |
| Rated voltage (III/3)                                     | 690 V                                                                                    |           |
| Rated surge voltage                                       | 6 kV                                                                                     |           |
| Rated current                                             | 20 A                                                                                     |           |
| Surge voltage category/pollution degree                   | III / 3                                                                                  |           |
| Material data                                             |                                                                                          |           |
| Housing material                                          | PA                                                                                       |           |
| Contact material                                          | Cu                                                                                       |           |
| Contact surface material                                  | Silver-plated                                                                            |           |
| Inflammability class according to UL 94                   | V0                                                                                       |           |
| Impact category                                           | IK07                                                                                     |           |
| Color                                                     | Black                                                                                    |           |
| Connector data QUICKON connection                         |                                                                                          |           |
| Core insulation                                           | PVC/PE/TPE/rubber                                                                        |           |
| Structure of individual litz wire/smallest wire diameter  | VDE 0295 class 1 to 6/<br>min. 0.15 mm                                                   |           |
| Connection frequency                                      | 10                                                                                       |           |
| Conductor cross section [mm <sup>2</sup> ] solid/stranded | 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> /<br>1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |           |
| Conductor cross section [AWG]                             | 16 ... 14                                                                                |           |
| Temperature data                                          |                                                                                          |           |
| Ambient temperature (operation)                           | -40 °C ... 80 °C                                                                         |           |
| Temperature when conductor connected                      | -5 °C ... 50 °C                                                                          |           |

## Ordering data

| Order No. | Pcs. / Pkt. | Order No. | Pcs. / Pkt. |
|-----------|-------------|-----------|-------------|
| 3+PE-pos. |             | 4+PE-pos. |             |
| 1582637   | 1           |           |             |
| 1582638   | 1           |           |             |
|           |             | 1403784   | 1           |
|           |             | 1403782   | 1           |

# Installation system

## 2.5 mm² installation system

### Accessories

- Mounting clip ① for easily fixing the H-distributor in place without the need for tools
- DIN rail mounting can be achieved using two DIN-rail adapters ②
- Plastic labels ③ can be stuck to the middle of the H-distributor
- Red sealing plugs ④ can be easily stuck into the QUICKON nuts and create a seal when screwed tight
- Protective caps with retaining cords ⑤ for closing open QUICKON domes which are going to have a connector (for example) fitted at a later date
- Locking nuts ⑥ for fixing the panel feed-throughs to thin panels that are unable to accommodate a proprietary thread
- Insulating sleeve ⑦ for 4.8 mm slip-on connections
- Transparent protective caps ⑧ for attaching to the open QUICKON dome
- Transparent protective caps ⑨ at front for attaching to the connector
- Slotted socket wrenches ⑩ enable you to tighten the QUICKON nuts easily and securely
- Red coding profiles ⑪ for preventing QPD connector mix-ups. Simply insert them into the QUICKON dome and connector on the front side. They are marked with an arrow and their symmetrical form enables them to be mounted in four different positions
- AS-Interface seals ⑫ for connecting 1 or 2 AS-Interface cables
- Aluminum shielding tape ⑬ prevents the splicing of the braided shield and enables a clean shield connection



| Ordering data                                                                                                                                                                                                       |                                                                                   |                                                     |                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------|
| Description                                                                                                                                                                                                         | Type                                                                              | Order No.                                           | Pcs. / Pkt.           |
| <b>DIN rail adapter</b> ②<br>For M5 screws                                                                                                                                                                          | QPD CLIP 2,5 BK                                                                   | 1582235                                             | 10                    |
| <b>Plastic label</b> ③<br>For plotting and engraving<br>Can be printed using thermal transfer printer                                                                                                               | USA 10/4,6                                                                        | 1202713                                             | 10                    |
| <b>Closing cap</b> , for closing unused bore holes in multiple seals and cable glands ④                                                                                                                             | GPE 13X 9 WH<br>EMLP (13X9)R                                                      | 0806932<br>0819453                                  | 10<br>1               |
| Ø 10 mm<br>Ø 14 mm                                                                                                                                                                                                  | SEALING PLUG 10X16 RD<br>SEALING PLUG 14X22 RD                                    | 1400284<br>1400270                                  | 10<br>10              |
| <b>Protective cap</b> , captive, IP68 ⑤<br>Color: green<br>Color: black<br>Color: gray<br>Color: black                                                                                                              | QPD QSK 2,5 FS<br>QPD QSK BK 2,5 FS<br>QPD QSK GY 5X2,5 FS<br>QPD QSK BK 5X2,5 FS | 1582488<br>1582645<br>1404526<br>1404525            | 1<br>1<br>1<br>1      |
| <b>Counter nut</b> , (plastic), ⑥<br>to lock the contact carrier from the inside of the device<br>M16 / SW22 / color: green<br>M20 / SW26 / color: green<br>M25 / SW32 / color: black<br>Pg21 / SW36 / color: black | Q-MU M16<br>Q-MU M20<br>Q-MU M25<br>Q-MU PG 21 BK                                 | 1640692<br>1640702<br>1640715<br>1582655            | 25<br>25<br>25<br>50  |
| <b>Insulating sleeve</b> , ⑦<br>as shock protection for 4.8 mm slip-on sleeves; first slide over the conductor<br>For 4.8 mm slip-on sleeves                                                                        | PT/FS 4,8                                                                         | 1670497                                             | 25                    |
| <b>Protective cap</b> , transparent plastic, for QUICKON connection, IP54 ⑧                                                                                                                                         | QPD QSK 2,5<br>QPD QSK 5X2,5<br>QPD QSK 5X6,0                                     | 1582150<br>1404528<br>1411403                       | 10<br>10<br>10        |
| <b>Protective cap</b> , transparent plastic, for QUICKON connection, IP50 ⑨                                                                                                                                         | QPD PSK 2,5<br>QPD PSK 5X2,5<br>QPD PSK 5X6,0                                     | 1582151<br>1404529<br>1411404                       | 10<br>10<br>10        |
| <b>Slotted socket wrench</b> for QUICKON nuts and panel feed-throughs, for wrench size: ⑩<br><br>15 mm<br>19 mm<br>22 mm<br>24 mm<br>27 mm                                                                          | QSS 15<br>QSS 19<br>QSS 22<br>QSS 24<br>QSS 27                                    | 1641992<br>1670895<br>1670206<br>1670219<br>1670646 | 1<br>1<br>1<br>1<br>1 |
| <b>Coding profile</b> , for insertion into the connector and QUICKON dome ⑪                                                                                                                                         | CP-QPD<br>CP-QPD 5X2,5                                                            | 1582459<br>1404530                                  | 10<br>10              |
| <b>Seal for 4-pos. versions</b> , NBR, black, for IP65/IP67 protection ⑫                                                                                                                                            | KV-DI-PG16-1XASI<br>KV-DI-PG16-2XASI                                              | 1582462<br>1582464                                  | 10<br>10              |
| One AS-i cable<br>Two AS-i cables<br><b>Shielding tape</b> , for shielded QPD versions ⑬                                                                                                                            | ALU-SB                                                                            | 1404531                                             | 100                   |

**H-distributor, 6.0 mm<sup>2</sup>**

- Can be used as a H-distributor with continuous master cable
- Can be used as a star distributor
- Can be used as a Y-distributor with a test connection
- Touch-proof in accordance with DIN EN 50274
- Also available as gray color versions



With four QUICKON nuts



Without QUICKON nut

|                                                                                                                              | Technical data                        | Technical data                        |             |                              |                |             |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------|-------------|------------------------------|----------------|-------------|
|                                                                                                                              | 4+PE-pos.                             | 4+PE-pos.                             |             |                              |                |             |
| General data                                                                                                                 |                                       |                                       |             |                              |                |             |
| Degree of protection                                                                                                         | IP68 / IP69K                          | IP68 / IP69K                          |             |                              |                |             |
| Electrical data                                                                                                              |                                       |                                       |             |                              |                |             |
| Rated voltage (III/3)                                                                                                        | 690 V                                 | 690 V                                 |             |                              |                |             |
| Rated surge voltage                                                                                                          | 6 kV                                  | 6 kV                                  |             |                              |                |             |
| Rated current                                                                                                                | 40 A                                  | 40 A                                  |             |                              |                |             |
| Surge voltage category/pollution degree                                                                                      | III / 3                               | III / 3                               |             |                              |                |             |
| Material data                                                                                                                |                                       |                                       |             |                              |                |             |
| Housing material                                                                                                             | PA                                    | PA                                    |             |                              |                |             |
| Contact material                                                                                                             | Cu                                    | Cu                                    |             |                              |                |             |
| Inflammability class according to UL 94                                                                                      | V0                                    | V0                                    |             |                              |                |             |
| Mechanical data                                                                                                              |                                       |                                       |             |                              |                |             |
| Impact category                                                                                                              | IK07                                  | IK07                                  |             |                              |                |             |
| Color                                                                                                                        | Black                                 | Black                                 |             |                              |                |             |
| Connector data QUICKON connection                                                                                            |                                       |                                       |             |                              |                |             |
| Core insulation                                                                                                              | PVC/PE/TPE/rubber                     | PVC/PE/TPE/rubber                     |             |                              |                |             |
| Structure of individual litz wire/smallest wire diameter                                                                     | VDE 0295 class 1 to 6/min. 0.15 mm    | VDE 0295 class 1 to 6/min. 0.15 mm    |             |                              |                |             |
| Connection frequency                                                                                                         | max. 10                               | max. 10                               |             |                              |                |             |
| Conductor cross section [mm²] solid/stranded                                                                                 | 2.5 mm² ... 6 mm² / 2.5 mm² ... 6 mm² | 2.5 mm² ... 6 mm² / 2.5 mm² ... 6 mm² |             |                              |                |             |
| Conductor cross section [AWG]                                                                                                | 14 ... 10                             | 14 ... 10                             |             |                              |                |             |
| Temperature data                                                                                                             |                                       |                                       |             |                              |                |             |
| Ambient temperature (operation)                                                                                              | -40 °C ... 80 °C                      | -40 °C ... 80 °C                      |             |                              |                |             |
| Temperature when conductor connected                                                                                         | -5 °C ... 50 °C                       | -5 °C ... 50 °C                       |             |                              |                |             |
|                                                                                                                              | Ordering data                         |                                       |             | Ordering data                |                |             |
| Description                                                                                                                  | Type                                  | Order No.                             | Pcs. / Pkt. | Type                         | Order No.      | Pcs. / Pkt. |
| <b>H-distributor, with four QUICKON nuts and one sealing bolt, for cable diameters:</b><br>9 mm ... 14 mm<br>12 mm ... 20 mm | <b>QPD H 4PE6,0 4X9-14 BK</b>         | <b>1411422</b>                        | 1           |                              |                |             |
|                                                                                                                              | <b>QPD H 4PE6,0 4X12-20 BK</b>        | <b>1411425</b>                        | 1           |                              |                |             |
| <b>H-distributor, without QUICKON nuts</b>                                                                                   |                                       |                                       |             | <b>QPD H 4PE6,0 BK</b>       | <b>1411426</b> | 1           |
| <b>QUICKON nut, for connections up to 6.0 mm², for cable diameter:</b><br>9 mm ... 14 mm<br>12 mm ... 20 mm                  |                                       |                                       |             | <b>QPD N 4PE6,0 9-14 BK</b>  | <b>1410409</b> | 1           |
|                                                                                                                              |                                       |                                       |             | <b>QPD N 4PE6,0 12-20 BK</b> | <b>1410406</b> | 1           |



- Easy cable extension or cable repairs
- The QUICKON connections at opposite ends feature different position markings and mechanical coding
- The 6.0 mm<sup>2</sup> connector can be used here instead of the QUICKON nut
- Also available as gray color versions



**With two QUICKON nuts**



**With one QUICKON nut**

| Description                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Cable connector</b>, with <b>two</b> QUICKON nuts,<br/>for cable diameters:<br/>9 mm ... 14 mm<br/>12 mm ... 20 mm</p>        |
| <p><b>Cable connector</b>, with <b>one</b> QUICKON nut,<br/>for cable diameters:<br/>9 mm ... 14 mm<br/>12 mm ... 20 mm</p>         |
| <p><b>QUICKON nut</b>, for connections up to 6.0 mm<sup>2</sup>,<br/>for cable diameter:<br/>9 mm ... 14 mm<br/>12 mm ... 20 mm</p> |

# Installation system

## 6.0 mm² installation system

### Panel feed-throughs, 6.0 mm²

- Devices no longer need to be opened in order to connect the cables
- User-friendly connection, even on devices that are difficult to access
- Touch-proof in accordance with DIN EN 50274
- Also available as gray color versions



With one QUICKON nut



Without QUICKON nut

(R)

#### Technical data

##### 4+PE-pos.

|                                                          |                                       |
|----------------------------------------------------------|---------------------------------------|
| General data                                             |                                       |
| Degree of protection                                     | IP68 / IP69K                          |
| Electrical data                                          |                                       |
| Rated voltage (III/3)                                    | 690 V                                 |
| Rated surge voltage                                      | 6 kV                                  |
| Rated current                                            | 40 A                                  |
| Surge voltage category/pollution degree                  | III / 3                               |
| Material data                                            |                                       |
| Housing material                                         | PA                                    |
| Contact material                                         | Cu                                    |
| Inflammability class according to UL 94                  | V0                                    |
| Mechanical data                                          |                                       |
| Impact category                                          | IK07                                  |
| Color                                                    | Black                                 |
| Connector data QUICKON connection                        |                                       |
| Core insulation                                          | PVC/PE/TPE/rubber                     |
| Structure of individual litz wire/smallest wire diameter | VDE 0295 class 1 to 6/min. 0.15 mm    |
| Connection frequency                                     | max. 10                               |
| Conductor cross section [mm²] solid/stranded             | 2.5 mm² ... 6 mm² / 2.5 mm² ... 6 mm² |
| Conductor cross section [AWG]                            | 14 ... 10                             |
| Temperature data                                         |                                       |
| Ambient temperature (operation)                          | -40 °C ... 80 °C                      |
| Temperature when conductor connected                     | -5 °C ... 50 °C                       |

#### Ordering data

| Description                                                                                          | Cable length | Type                          | Order No. | Pcs. / Pkt. |
|------------------------------------------------------------------------------------------------------|--------------|-------------------------------|-----------|-------------|
| <b>Panel feed-through, with M25 x 1.5 mounting flange, with one QUICKON nut, for cable diameter:</b> |              |                               |           |             |
| 9 mm ... 14 mm                                                                                       | 0.5 m        | QPD W 4PE6,0 9-14 M25 0,5 BK  | 1410392   | 1           |
| 9 mm ... 14 mm                                                                                       | 1 m          | QPD W 4PE6,0 9-14 M25 1,0 BK  | 1410393   | 1           |
| 12 mm ... 20 mm                                                                                      | 0.5 m        | QPD W 4PE6,0 12-20 M25 0,5 BK | 1410394   | 1           |
| 12 mm ... 20 mm                                                                                      | 1 m          | QPD W 4PE6,0 12-20 M25 1,0 BK | 1410395   | 1           |
| <b>Panel feed-through, with M25 x 1.5 mounting flange, without QUICKON nut</b>                       |              |                               |           |             |
|                                                                                                      | 0.5 m        |                               |           |             |
|                                                                                                      | 1 m          |                               |           |             |
| <b>QUICKON nut, for connections up to 6.0 mm², for cable diameter:</b>                               |              |                               |           |             |
| 9 mm ... 14 mm                                                                                       |              |                               |           |             |
| 12 mm ... 20 mm                                                                                      |              |                               |           |             |

(R)

#### Technical data

##### 4+PE-pos.

|                                                          |                                       |
|----------------------------------------------------------|---------------------------------------|
| General data                                             |                                       |
| Degree of protection                                     | IP68 / IP69K                          |
| Electrical data                                          |                                       |
| Rated voltage (III/3)                                    | 690 V                                 |
| Rated surge voltage                                      | 6 kV                                  |
| Rated current                                            | 40 A                                  |
| Surge voltage category/pollution degree                  | III / 3                               |
| Material data                                            |                                       |
| Housing material                                         | PA                                    |
| Contact material                                         | Cu                                    |
| Inflammability class according to UL 94                  | V0                                    |
| Mechanical data                                          |                                       |
| Impact category                                          | IK07                                  |
| Color                                                    | Black                                 |
| Connector data QUICKON connection                        |                                       |
| Core insulation                                          | PVC/PE/TPE/rubber                     |
| Structure of individual litz wire/smallest wire diameter | VDE 0295 class 1 to 6/min. 0.15 mm    |
| Connection frequency                                     | max. 10                               |
| Conductor cross section [mm²] solid/stranded             | 2.5 mm² ... 6 mm² / 2.5 mm² ... 6 mm² |
| Conductor cross section [AWG]                            | 14 ... 10                             |
| Temperature data                                         |                                       |
| Ambient temperature (operation)                          | -40 °C ... 80 °C                      |
| Temperature when conductor connected                     | -5 °C ... 50 °C                       |

#### Ordering data

| Type                                                                           | Order No. | Pcs. / Pkt. |
|--------------------------------------------------------------------------------|-----------|-------------|
| <b>Panel feed-through, with M25 x 1.5 mounting flange, without QUICKON nut</b> |           |             |
| QPD W 4PE6,0 M25 0,5 BK                                                        | 1410396   | 1           |
| QPD W 4PE6,0 M25 1,0 BK                                                        | 1410397   | 1           |
| <b>QUICKON nut, for connections up to 6.0 mm², for cable diameter:</b>         |           |             |
| QPD N 4PE6,0 9-14 BK                                                           | 1410409   | 1           |
| QPD N 4PE6,0 12-20 BK                                                          | 1410406   | 1           |

Connector, 6.0 mm<sup>2</sup>

new

- With capacitive PE contact
- Compatible with QUICKON connection
- Can be coded using the two red coding profiles to prevent incorrect connection of similar connectors
- Touch-proof in accordance with DIN EN 50274
- Also available as gray color versions
- With SPEEDCON fast locking system



With gray screw locking

## Technical data

4+PE-pos.

| General data                                              |                                                                                       |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------|
| Degree of protection                                      | IP68 / IP69K                                                                          |
| Electrical data                                           |                                                                                       |
| Rated voltage (III/3)                                     | 690 V                                                                                 |
| Rated surge voltage                                       | 6 kV                                                                                  |
| Rated current                                             | 40 A                                                                                  |
| Surge voltage category/pollution degree                   | III / 3                                                                               |
| Material data                                             |                                                                                       |
| Housing material                                          | PA                                                                                    |
| Contact material                                          | Cu                                                                                    |
| Contact surface material                                  | Silver-plated                                                                         |
| Inflammability class according to UL 94                   | V0                                                                                    |
| Impact category                                           | IK07                                                                                  |
| Color                                                     | Black                                                                                 |
| Connector data QUICKON connection                         |                                                                                       |
| Core insulation                                           | PVC/PE/TPE/rubber                                                                     |
| Structure of individual litz wire/smallest wire diameter  | VDE 0295 class 1 to 6/min. 0.15 mm                                                    |
| Connection frequency                                      | 10                                                                                    |
| Conductor cross section [mm <sup>2</sup> ] solid/stranded | 2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> / 2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> |
| Conductor cross section [AWG]                             | 14 ... 10                                                                             |
| Temperature data                                          |                                                                                       |
| Ambient temperature (operation)                           | -40 °C ... 80 °C                                                                      |
| Temperature when conductor connected                      | -5 °C ... 50 °C                                                                       |

## Ordering data

| Description                              | Type                  | Order No. | Pcs. / Pkt. |
|------------------------------------------|-----------------------|-----------|-------------|
| <b>Connectors</b> , for cable diameters: |                       |           |             |
| 9 mm ... 14 mm                           | QPD P 4PE6,0 9-14 BK  | 1410386   | 1           |
| 12 mm ... 20 mm                          | QPD P 4PE6,0 12-20 BK | 1410387   | 1           |

# Installation system

## 6.0 mm² installation system

### Accessories

- Plastic labels ③ can be stuck to the middle of the H-distributor
- Red sealing plugs ④ can be easily stuck into the QUICKON nuts and create a seal when screwed tight
- Protective caps with retaining cords ⑤ for closing open QUICKON domes which are going to have a connector (for example) fitted at a later date
- Locking nuts ⑥ for fixing the panel feed-throughs to thin panels that are unable to accommodate a proprietary thread
- Insulating sleeve ⑦ for 4.8 mm slip-on connections
- Transparent protective caps ⑧ for attaching to the open QUICKON dome
- Transparent protective caps ⑨ at front for attaching to the connector
- Aluminum shielding tape ⑬ prevents the splicing of the braided shield and enables a clean shield connection



| Description                                                                                                                                   |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------|---|
| <b>Plastic label</b><br>For plotting and engraving<br>Can be printed using thermal transfer printer                                           | ③ |
| <b>Closing cap</b> , for closing unused bore holes in multiple seals and cable glands<br><br>Ø 10 mm<br>Ø 14 mm                               | ④ |
| <b>Protective cap</b> , captive, IP68                                                                                                         | ⑤ |
| <b>Counter nut</b> , (plastic),<br>to lock the contact carrier from the inside of the device<br>M25/SW32/color: black                         | ⑥ |
| <b>Insulating sleeve</b> ,<br>as shock protection for 4.8 mm slip-on sleeves;<br>first slide over the conductor<br>For 4.8 mm slip-on sleeves | ⑦ |
| <b>Protective cap</b> , transparent plastic, for QUICKON connection, IP54                                                                     | ⑧ |
| <b>Protective cap</b> , transparent plastic, for QUICKON connection, IP50                                                                     | ⑨ |
| <b>Coding profile</b> , for insertion into the connector and QUICKON dome                                                                     | ⑪ |
| <b>Shielding tape</b> , for shielded QPD versions                                                                                             | ⑬ |

| Ordering data                                  |           |             |
|------------------------------------------------|-----------|-------------|
| Type                                           | Order No. | Pcs. / Pkt. |
| GPE 13X 9 WH<br>EMLP (13X9)R                   | 0806932   | 10          |
|                                                | 0819453   | 1           |
| SEALING PLUG 10X16 RD<br>SEALING PLUG 14X22 RD | 1400284   | 10          |
|                                                | 1400270   | 10          |
| QPD QSK GY 5X6,0 FS<br>QPD QSK BK 5X6,0 FS     | 1411401   | 1           |
|                                                | 1411400   | 1           |
| Q-MU M25                                       | 1640715   | 25          |
| PT/FS 4,8                                      | 1670497   | 25          |
| QPD QSK 5X6,0                                  | 1411403   | 10          |
| QPD PSK 5X6,0                                  | 1411404   | 10          |
| CP-QPD 5X6,0                                   | 1411402   | 10          |
| ALU-SB                                         | 1404531   | 100         |

## Panel feed-throughs, 2.5 mm<sup>2</sup> for intrinsically safe circuits

- Devices no longer need to be opened in order to connect the cables
- User-friendly connection, even on devices that are difficult to access
- Touch-proof in accordance with DIN EN 50274

### Notes:

Intended for applications in intrinsically safe circuits according to EN 60079-11 and EN 60079-14.



With litz wires



With manual solder/slip-on connection

Ⓜ

| Technical data                                            |                                                                                       |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------|
| 4+PE-pos.                                                 |                                                                                       |
| General data                                              |                                                                                       |
| Degree of protection                                      | IP68 / IP69K                                                                          |
| Electrical data                                           |                                                                                       |
| Rated voltage                                             | 60 V                                                                                  |
| Rated surge voltage                                       | 6 kV                                                                                  |
| Surge voltage category/pollution degree                   | III / 3                                                                               |
| Material data                                             |                                                                                       |
| Housing material                                          | PA                                                                                    |
| Contact material                                          | Cu                                                                                    |
| Inflammability class according to UL 94                   | V0                                                                                    |
| Mechanical data                                           |                                                                                       |
| Impact category                                           | IK07                                                                                  |
| Color                                                     | Black                                                                                 |
| Connector data QUICKON connection                         |                                                                                       |
| Core insulation                                           | PVC/PE/TPE/rubber                                                                     |
| Structure of individual litz wire/smallest wire diameter  | VDE 0295 class 1 to 6/min. 0.15 mm                                                    |
| Connection frequency                                      | max. 10                                                                               |
| Conductor cross section [mm <sup>2</sup> ] solid/stranded | 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section [AWG]                             | 16 ... 14                                                                             |
| Temperature data                                          |                                                                                       |
| Ambient temperature (operation)                           | -40 °C ... 80 °C                                                                      |
| Temperature when conductor connected                      | -5 °C ... 50 °C                                                                       |

Ⓜ

| Technical data                                            |                                                                                       |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------|
| 4+PE-pos.                                                 |                                                                                       |
| General data                                              |                                                                                       |
| Degree of protection                                      | IP68 / IP69K                                                                          |
| Electrical data                                           |                                                                                       |
| Rated voltage                                             | 60 V                                                                                  |
| Rated surge voltage                                       | 6 kV                                                                                  |
| Surge voltage category/pollution degree                   | III / 3                                                                               |
| Material data                                             |                                                                                       |
| Housing material                                          | PA                                                                                    |
| Contact material                                          | Cu                                                                                    |
| Inflammability class according to UL 94                   | V0                                                                                    |
| Mechanical data                                           |                                                                                       |
| Impact category                                           | IK07                                                                                  |
| Color                                                     | Black                                                                                 |
| Connector data QUICKON connection                         |                                                                                       |
| Core insulation                                           | PVC/PE/TPE/rubber                                                                     |
| Structure of individual litz wire/smallest wire diameter  | VDE 0295 class 1 to 6/min. 0.15 mm                                                    |
| Connection frequency                                      | max. 10                                                                               |
| Conductor cross section [mm <sup>2</sup> ] solid/stranded | 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section [AWG]                             | 16 ... 14                                                                             |
| Temperature data                                          |                                                                                       |
| Ambient temperature (operation)                           | -40 °C ... 80 °C                                                                      |
| Temperature when conductor connected                      | -5 °C ... 50 °C                                                                       |

| Ordering data                                                                                     |              | Ordering data                |           |             |
|---------------------------------------------------------------------------------------------------|--------------|------------------------------|-----------|-------------|
| Description                                                                                       | Cable length | Type                         | Order No. | Pcs. / Pkt. |
| <b>Panel feed-through, with M20 x 1.5 mounting flange, with QUICKON nut, for cable diameter:</b>  |              |                              |           |             |
| 6 mm ... 11 mm                                                                                    | 0.5 m        | QPD W 4PE2,5 6-11 M20 0,5 EX | 1411393   | 1           |
| 6 mm ... 11 mm                                                                                    | 1 m          | QPD W 4PE2,5 6-11 M20 1,0 EX | 1411394   | 1           |
| 6 mm ... 11 mm                                                                                    |              |                              |           |             |
| 9 mm ... 16 mm                                                                                    | 0.5 m        | QPD W 4PE2,5 9-16 M20 0,5 EX | 1411397   | 1           |
| 9 mm ... 16 mm                                                                                    | 1 m          | QPD W 4PE2,5 9-16 M20 1,0 EX | 1411398   | 1           |
| 9 mm ... 16 mm                                                                                    |              |                              |           |             |
| <b>Panel feed-through, with M25 x 1.5 mounting flange, with QUICKON nut, for cable diameters:</b> |              |                              |           |             |
| 6 mm ... 11 mm                                                                                    | 0.5 m        | QPD W 4PE2,5 6-11 M25 0,5 EX | 1411387   | 1           |
| 6 mm ... 11 mm                                                                                    | 1 m          | QPD W 4PE2,5 6-11 M25 1,0 EX | 1411388   | 1           |
| 6 mm ... 11 mm                                                                                    |              |                              |           |             |
| 9 mm ... 16 mm                                                                                    | 0.5 m        | QPD W 4PE2,5 9-16 M25 0,5 EX | 1411390   | 1           |
| 9 mm ... 16 mm                                                                                    | 1 m          | QPD W 4PE2,5 9-16 M25 1,0 EX | 1411391   | 1           |
| 9 mm ... 16 mm                                                                                    |              |                              |           |             |

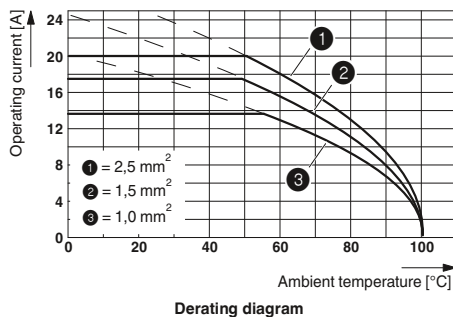
| Ordering data               |           | Ordering data |  |  |
|-----------------------------|-----------|---------------|--|--|
| Type                        | Order No. | Pcs. / Pkt.   |  |  |
| QPD W 4PE2,5 6-11 M20 FC EX | 1411395   | 1             |  |  |
| QPD W 4PE2,5 9-16 M20 FC EX | 1411399   | 1             |  |  |
| QPD W 4PE2,5 6-11 M25 FC EX | 1411389   | 1             |  |  |
| QPD W 4PE2,5 9-16 M25 FC EX | 1411392   | 1             |  |  |



- Particularly suitable for connecting drives of up to 15 kW using wires with ring cable lugs
- Direct connection without the need to open the motor terminal box

#### Pin assignment

- Pos. 1 BK (black)
- Pos. 2 BN (brown)
- Pos. 3 GY (gray)
- Pos. 4 GNYE (green-yellow)



Panel feed-throughs with/without QUICKON nut



#### Technical data

|                                                          |                                       |
|----------------------------------------------------------|---------------------------------------|
| General data                                             |                                       |
| Pollution degree                                         | 3                                     |
| Degree of protection                                     | IP68 / IP69K                          |
| Electrical data                                          |                                       |
| Rated voltage (III/3)                                    | 690 V                                 |
| Rated surge voltage                                      | 6 kV                                  |
| Rated current                                            | 20 A                                  |
| Surge voltage category                                   | III                                   |
| Material data                                            |                                       |
| Housing material                                         | PA                                    |
| Contact material                                         | Cu                                    |
| Contact surface material                                 | Silver-plated                         |
| Contact carrier material                                 | PA                                    |
| Inflammability class according to UL 94                  | V0                                    |
| Mechanical data                                          |                                       |
| Wrench size, union nut                                   | 22 mm                                 |
| Tightening torque, union nut                             | 5 Nm                                  |
| Tightening torque, contact carrier                       | -                                     |
| Impact category                                          | IK07                                  |
| Connector data QUICKON connection                        |                                       |
| Core insulation                                          | PVC/PE/TPE/rubber                     |
| Structure of individual litz wire/smallest wire diameter | VDE 0295 class 1 to 6/min. 0.15 mm    |
| Connection frequency                                     | 10                                    |
| Conductor cross section [mm²] solid/stranded             | 1 mm² ... 2.5 mm² / 1 mm² ... 2.5 mm² |
| Conductor cross section [AWG]                            | 16 ... 14                             |
| Temperature data                                         |                                       |
| Ambient temperature (operation)                          | -40 °C ... 80 °C                      |
| Temperature when conductor connected                     | -5 °C ... 50 °C                       |

#### Ordering data

| Description                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Panel feed-through, 3+PE-pos., with QUICKON nut, with four welded-on 1.5 mm² cable wires, with ring cable lugs at the end, for cable diameters:</b> |
| 6 mm ... 10 mm                                                                                                                                         |
| 9 mm ... 14 mm                                                                                                                                         |
| <b>Panel feed-through, 3+PE-pos., without QUICKON nut, with four welded-on 1.5 mm² cable wires, with ring cable lugs at the end</b>                    |

| Type                          | Order No. | Pcs. / Pkt. |
|-------------------------------|-----------|-------------|
| QPDW3PE1,5 6-10 M25 0,1 BKKTH | 1582475   | 1           |
| QPDW3PE1,5 9-14 M25 0,1 BKKTH | 1582476   | 1           |
| QPD W 3PE1,5 M25 0,1 BK K TH  | 1577273   | 1           |

**Assembled cables, 2.5 mm<sup>2</sup>**

- Connecting cable between two QUICKON connections
- User-friendly connection, even on devices that are difficult to access
- Touch-proof in accordance with DIN EN 50274
- Other versions available on request
- With SPEEDCON fast locking system

**4+PE-pos.**

| Technical data                                            |                                                                                       |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------|
| General data                                              |                                                                                       |
| Degree of protection                                      | IP68 / IP69K                                                                          |
| Electrical data                                           |                                                                                       |
| Rated voltage (III/3)                                     | 690 V                                                                                 |
| Rated surge voltage                                       | 6 kV                                                                                  |
| Rated current                                             | 20 A                                                                                  |
| Surge voltage category/pollution degree                   | III / 3                                                                               |
| Material data                                             |                                                                                       |
| Housing material                                          | PA                                                                                    |
| Contact material                                          | Cu                                                                                    |
| Inflammability class according to UL 94                   | V0                                                                                    |
| Mechanical data                                           |                                                                                       |
| Impact category                                           | IK07                                                                                  |
| Color                                                     | Black                                                                                 |
| Connector data QUICKON connection                         |                                                                                       |
| Core insulation                                           | PVC/PE/TPE/rubber                                                                     |
| Structure of individual litz wire/smallest wire diameter  | VDE 0295 class 1 to 6/min. 0.15 mm                                                    |
| Connection frequency                                      | max. 10                                                                               |
| Conductor cross section [mm <sup>2</sup> ] solid/stranded | 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section [AWG]                             | 16 ... 14                                                                             |
| Temperature data                                          |                                                                                       |
| Ambient temperature (operation)                           | -40 °C ... 80 °C                                                                      |
| Temperature when conductor connected                      | -5 °C ... 50 °C                                                                       |

|                 |              | Ordering data               |           |             |
|-----------------|--------------|-----------------------------|-----------|-------------|
| Description     | Cable length | Type                        | Order No. | Pcs. / Pkt. |
| Assembled cable | 1 m          | QPD 5P/ 1,0-PVC/5P 5X2,5 BK | 1408720   | 1           |
|                 | 3 m          | QPD 5P/ 3,0-PVC/5P 5X2,5 BK | 1408721   | 1           |
|                 | 5 m          | QPD 5P/ 5,0-PVC/5P 5X2,5 BK | 1408722   | 1           |
|                 | 10 m         | QPD 5P/10,0-PVC/5P 5X2,5 BK | 1408723   | 1           |
|                 |              |                             |           |             |