

# QPD W4X2,5 6-10 M25 FC GY - Panel feed-through



1424001

<https://www.phoenixcontact.com/us/products/1424001>

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Panel feed-through, connection method: Spade connection/ IDC connection, M25, Pin, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 20 A, PA, gray, with QUICKON nut, coding: coded, external cable diameter: 6 mm ... 10 mm, 2.5 mm<sup>2</sup>

## Your advantages

- Innovative and time saving - QUICKON fast connection for time saving of up to 80 % for on-site connection
- Robust throughout: housing with IP68/IP69K and IK07 protection for a wide range of applications
- Safer connection with mechanical coding to protect against mismatching, and touch-proof protection in accordance with DIN EN 0105
- Efficient - by using panel feed-throughs, devices no longer need to be opened in order to connect cables

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1424001       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF50          |
| Product key                          | AF6ABB        |
| GTIN                                 | 4055626366173 |
| Weight per piece (including packing) | 42.2 g        |
| Weight per piece (excluding packing) | 22.22 g       |
| Customs tariff number                | 85366990      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                                    |                    |
|------------------------------------|--------------------|
| Product type                       | Panel feed-through |
| Product family                     | QPD                |
| Type                               | QPD 4x2,5          |
| Number of positions                | 4                  |
| Position marking                   | 1, 2, 3, 4         |
| Number of connections              | 10                 |
| Number of connections per position | 1                  |
| Coding                             | coded              |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Connection data

#### Connection technology

|   |                  |
|---|------------------|
| Connection method On the device side                                  | Spade connection |
| Connection method On the field side                                   | IDC connection   |
| Frequency of connections between conductors of the same cross section | max. 10          |

#### Conductor connection

|                                  |   |
|----------------------------------|---|
| Conductor cross section flexibel | 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section solid    | 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Connection cross section AWG     | 16 ... 14                                 |
| Tightening torque Union nut      | 10 Nm                                     |
| Tightening torque Locking nut    | 5 Nm                                      |

### Dimensions

|                     |       |
|---------------------|-------|
| Dimensional drawing |       |
| Width               | 30 mm |
| Height              | 30 mm |
| Length              | 63 mm |
| Diameter            | 30 mm |

### Electrical properties

|                             |      |
|-----------------------------|------|
| Rated surge voltage (II/2)  | 6 kV |
| Rated surge voltage (III/2) | 6 kV |
| Rated surge voltage (III/3) | 6 kV |

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|                       |          |
|-----------------------|----------|
| Contact resistance    | < 3 mΩ   |
| rated voltage (III/2) | 690 V    |
| Nominal voltage $U_N$ | 690 V AC |
|                       | 690 V DC |
| Nominal current $I_N$ | 20 A     |

## Mechanical properties

### Mechanical data

|                             |         |
|-----------------------------|---------|
| Insertion/withdrawal cycles | max. 50 |
|-----------------------------|---------|

## Material specifications

|  |                       |
|--|-----------------------|
| Color                                  | light gray (RAL 7035) |
| Material Housing                       | PA                    |
| Material Contact                       | Cu                    |
| Material Contact surface               | silver-plated         |
| Flammability rating according to UL 94 | V0                    |
| Material wire insulation               | PVC/PE/TPE/rubber     |

## Cable/line

|   |                                    |
|---|------------------------------------|
| Structure of individual litz in acc. with VDE 0295 / smallest wire diameter | VDE 0295 class 1 to 6/min. 0.15 mm |
| External cable diameter   | 6 mm ... 10 mm                     |
| Wire diameter including insulation  | 2 mm ... 3.6 mm                    |
| Position marking  | 1, 2, 3, 4                         |
| Cable cross section   | 2.5 mm <sup>2</sup>                |
| Material wire insulation  | PVC/PE/TPE/rubber                  |
| Halogen-free  | yes                                |

## Mounting

|               |                    |
|---------------|--------------------|
| Mounting type | Front mounting M25 |
|---------------|--------------------|

## Environmental and real-life conditions

### Ambient conditions

|   |  |
|---|--|
| Degree of protection                    | IP66<br>IP68 (2 m / 24 h)<br>IP69K<br>Touch-proof when not plugged in (IP2X) |
| Impact strength                         | IK07   |
| Ambient temperature (operation)         | -40 °C ... 100 °C  |
| Temperature when conductor connected    | -5 °C ... 50 °C  |
| Ambient temperature (storage/transport) | -40 °C ... 100 °C  |

# QPD W4X2,5 6-10 M25 FC GY - Panel feed-through

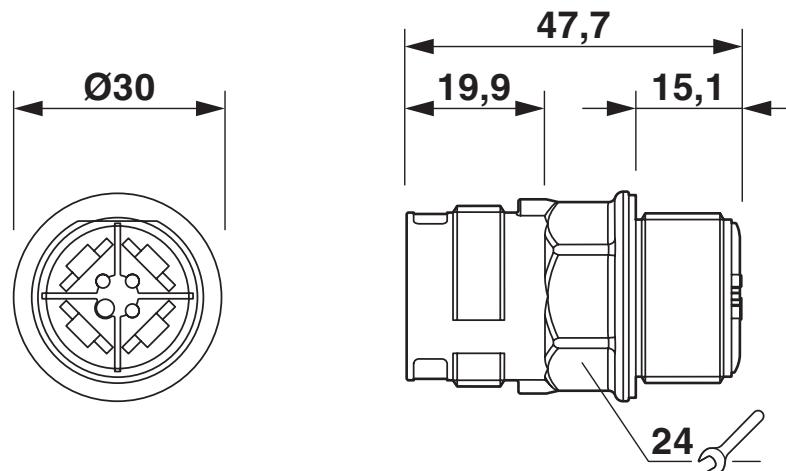


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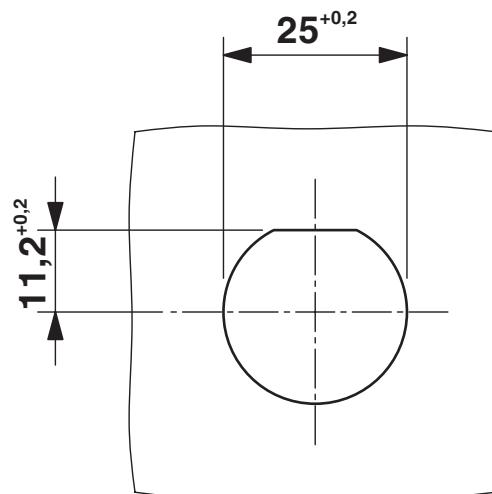
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## Drawings

Dimensional drawing



Dimensional drawing



Panel cutout

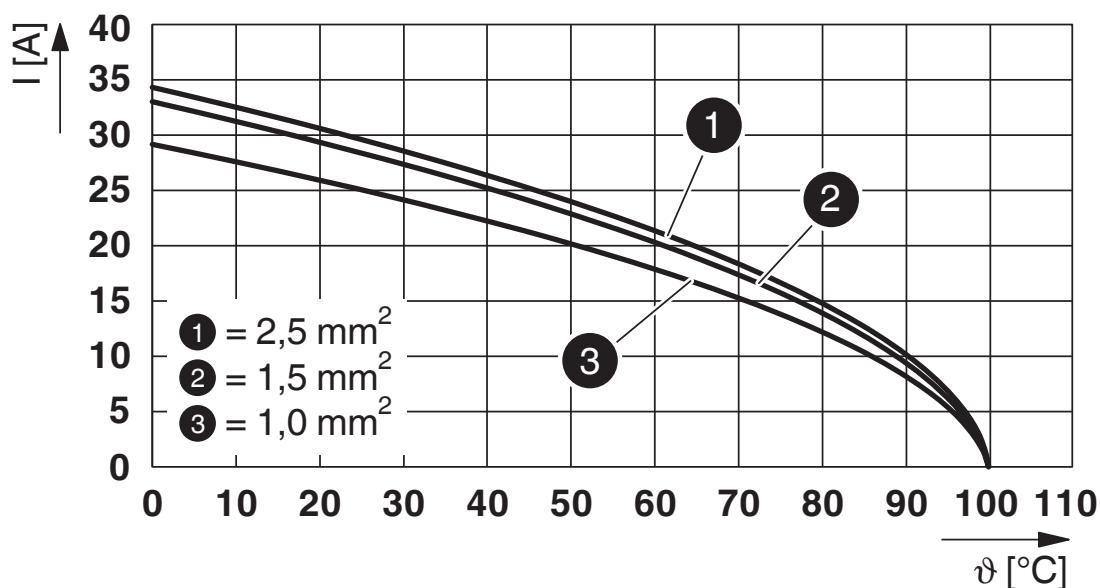
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Diagram



Derating diagram

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## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1424001>

|  |  |
|--|--|
|  | <b>IECEE CB Scheme</b><br>Approval ID: DE1-65875 |
|--|--|

| <b>VDE Zeichengenehmigung</b><br>Approval ID: 40029149 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine  |                       |                       |                   |                      |
| Only flexible conductors                               | 400 V                 | 20 A                  | -                 | 1.5 - 2.5            |
| Only rigid conductors                                  | 690 V                 | 20 A                  | -                 | 1.5 - 2.5            |

| <b>UL Listed</b><br>Approval ID: E468743 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine                                    |                       |                       |                   |                      |
|  | 600 V                 | 10 A                  | - 16              | - 16                 |

| <b>cUL Listed</b><br>Approval ID: E468743 |                       |                       |                   |                      |
|---|-----------------------|-----------------------|-------------------|----------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine                                     |                       |                       |                   |                      |
|   | 600 V                 | 10 A                  | - 16              | -                    |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440602 |
| ECLASS-15.0 | 27440602 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002566 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121500 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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