

# QPD W 4PE1,5 5-10 M25 FC BK - Panel feed-through



1414732

<https://www.phoenixcontact.com/us/products/1414732>

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Panel feed-through, product family: QPD, connection method: Spade connection (For slip-on sleeves according to DIN 46247-2)/ IDC connection, number of positions: 4+PE, M25, Pin, 0.5 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, 690 V, 17.5 A, PA, black, with QUICKON nut, coding: Coding profile, external cable diameter: 6 mm ... 10 mm, 1.5 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                          | 1414732             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BF50                |
| Product key                          | BF6ACA              |
| Catalog page                         | Page 478 (C-2-2019) |
| GTIN                                 | 4055626033457       |
| Weight per piece (including packing) | 41.8 g              |
| Weight per piece (excluding packing) | 40.7 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 5x1,5          |
| Number of positions                | 5                  |
| Connection profile                 | 4+PE               |
| Position marking                   | 1, 2, 3, N, PE     |
| Number of connections              | 10                 |
| Number of connections per position | 1                  |
| Coding                             | Coding profile     |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 03 |
|------------------|----|

### Insulation characteristics

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

### Connection data

#### Connection technology

|                                                                       |                                                                 |
|-----------------------------------------------------------------------|-----------------------------------------------------------------|
| Connection method On the device side                                  | Spade connection (For slip-on sleeves according to DIN 46247-2) |
| 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 | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross section solid    | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Connection cross section AWG     | 20 ... 16                                   |
| Tightening torque Union nut      | 8 Nm                                        |
| Tightening torque Locking nut    | 5 Nm                                        |

### Dimensions

|                     |         |
|---------------------|---------|
| Dimensional drawing |         |
| Width               | 30 mm   |
| Height              | 30 mm   |
| Length              | 64.7 mm |
| Diameter            | 30 mm   |

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|                                  |              |
|----------------------------------|--------------|
| Dimensions of slip-on connection | 4.8 x 0.8 mm |
|----------------------------------|--------------|

## Electrical properties

|                             |                                                                    |
|-----------------------------|--------------------------------------------------------------------|
| Rated surge voltage (II/2)  | 8 kV                                                               |
| Rated surge voltage (III/2) | 8 kV                                                               |
| Rated surge voltage (III/3) | 6 kV                                                               |
| Rated current               | 17.5 A (in accordance with IEC 61984 at ambient temperature: 30°C) |
| Contact resistance          | < 3 mΩ                                                             |
| rated voltage (II/2)        | 1000 V                                                             |
| rated voltage (III/2)       | 1000 V                                                             |
| Rated voltage (III/3)       | 690 V                                                              |
| Nominal voltage $U_N$       | 690 V AC                                                           |
|                             | 690 V DC                                                           |
| Nominal current $I_N$       | 17.5 A (in accordance with IEC 61984 at ambient temperature: 30°C) |

## Mechanical properties

### Mechanical data

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

## Material specifications

|                                        |                   |
|----------------------------------------|-------------------|
| Color                                  | black (RAL 9005)  |
| 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                                          | 1.6 mm ... 3 mm                    |
| Position marking                                                            | 1, 2, 3, N, PE                     |
| Cable cross section                                                         | 1.5 mm <sup>2</sup>                |
| Material wire insulation                                                    | PVC/PE/TPE/rubber                  |

## Mounting

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

## Environmental and real-life conditions

### Ambient conditions

|                      |                   |
|----------------------|-------------------|
| Degree of protection | IP66              |
|                      | IP68 (2 m / 24 h) |

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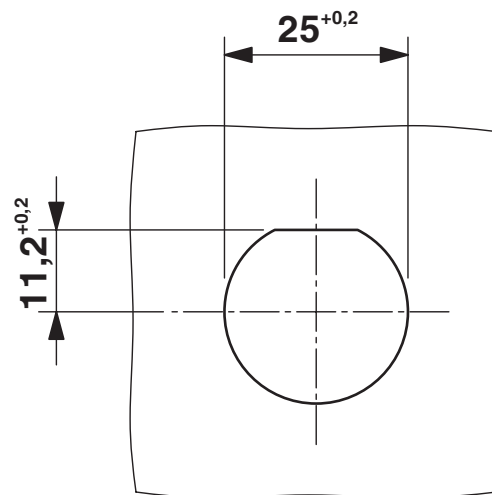
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|                                         |                                        |
|-----------------------------------------|----------------------------------------|
|                                         | IP69K                                  |
|                                         | 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                      |

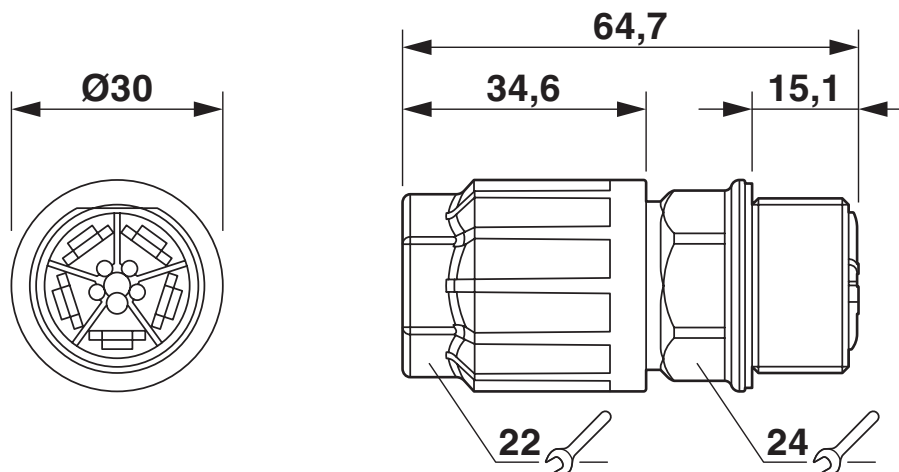
## Drawings

Dimensional drawing



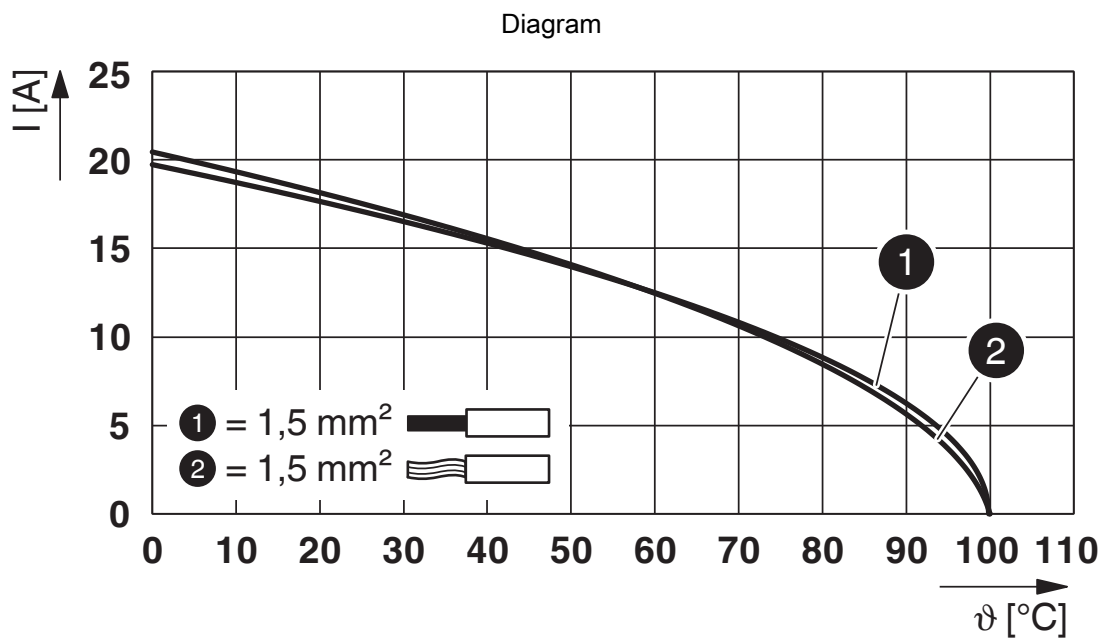
Panel cutout

Dimensional drawing



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Derating diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1414732>



**IECEE CB Scheme**  
Approval ID: DE1-65875



**EAC**  
Approval ID: RU C-DE.BL08.B.00511



**DNV GL**  
Approval ID: TAE00003J5



**VDE Zeichengenehmigung**  
Approval ID: 40029149

|                                                                                     |                                          |                       |                       |                   |
|-------------------------------------------------------------------------------------|------------------------------------------|-----------------------|-----------------------|-------------------|
|  | <b>UL Listed</b><br>Approval ID: E468743 |                       |                       |                   |
|                                                                                     |                                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG |
|                                                                                     |                                          | 600 V                 | 8 A                   | -                 |

|                                                                                     |                                           |                       |                       |                   |
|-------------------------------------------------------------------------------------|-------------------------------------------|-----------------------|-----------------------|-------------------|
|  | <b>cUL Listed</b><br>Approval ID: E468743 |                       |                       |                   |
|                                                                                     |                                           | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG |
|                                                                                     |                                           | 600 V                 | 8 A                   | - 16              |

**cULus Listed**



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Classifications

ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440602 |
| ECLASS-12.0 | 27440602 |
| ECLASS-13.0 | 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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