

# QPD W 4PE2,5 M20 FC BK - Panel feed-through



1403741

<https://www.phoenixcontact.com/us/products/1403741>

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Panel feed-through, connection method: Spade connection (For slip-on sleeves according to DIN 46247-2), number of positions: 4+PE, M20, Pin, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, PA, black, without QUICKON nut, coding: coded

## 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                          | 1403741       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF50          |
| Product key                          | AF6ACB        |
| GTIN                                 | 4046356665155 |
| Weight per piece (including packing) | 30.4 g        |
| Weight per piece (excluding packing) | 30.4 g        |
| Customs tariff number                | 85366990      |
| Country of origin                    | PL            |

## Technical data

## Product properties

|                                    |                    |
|------------------------------------|--------------------|
| Product type                       | Panel feed-through |
| Product family                     | QPD                |
| Type                               | QPD 5x2,5          |
| 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                             | coded              |

### 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) |
| Frequency of connections between conductors of the same cross section | max. 10   |

## Conductor connection

|                                  |                   |
|----------------------------------|-------------------|
| Conductor cross section flexibel | 1 mm² ... 2.5 mm² |
| Conductor cross section solid    | 1 mm² ... 2.5 mm² |
| Connection cross section AWG     | 16 ... 14         |
| Tightening torque Union nut      | 10 Nm             |
| Tightening torque Locking nut    | 5 Nm              |
| Wrench size Union nut            | 27 mm             |
| Wrench size Locking nut          | 30 mm             |

## Dimensions

| Dimensional drawing      |  |
|--------------------------|--|
|                          | <p>Technical drawing of the M200x1.5 valve. The front view shows a circular body with a diameter of Ø33.4 mm. The side view shows a rectangular body with a total length of 53 mm, a mounting flange width of 12.1 mm, and a mounting hole diameter of 15.9 mm. The mounting flange has a thickness of 14.7 mm and a mounting hole diameter of 30 mm. The valve is labeled M200x1.5.</p> |
| Width                    | 34.6 mm  |
| Height                   | 34.6 mm  |
| Length                   | 53 mm  |
| Diameter                 | 34.6 mm  |
| Wrench size              | 30 mm  |
| Wrench size for mounting | 30 mm  |

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|                                  |              |
|----------------------------------|--------------|
| Dimensions of slip-on connection | 2.8 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               | 20 A     |
| 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 $I_N$       | 20 A     |

## Mechanical properties

### Mechanical data

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

## Material specifications

|  |                   |
|--|-------------------|
| Color                                  | black (RAL 9005)  |
| Material Housing                       | PA                |
| 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 |
| Wire diameter including insulation  | 2 mm ... 3.8 mm                    |
| Position marking  | 1, 2, 3, N, PE                     |
| Material wire insulation  | PVC/PE/TPE/rubber                  |

## Mounting

|               |                    |
|---------------|--------------------|
| Mounting type | Front mounting M20 |
|---------------|--------------------|

## Environmental and real-life conditions

### Ambient conditions

|                                 |  |
|---------------------------------|--|
| Degree of protection            | IP66                                   |
|                                 | IP68 (2 m / 24 h)                      |
|                                 | IP69K                                  |
|                                 | Touch-proof when not plugged in (IP2X) |
| Impact strength                 | IK07                                   |
| Ambient temperature (operation) | -40 °C ... 100 °C                      |

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|   |                  |
|---|------------------|
| Temperature when conductor connected    | -5 °C ... 50 °C  |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |

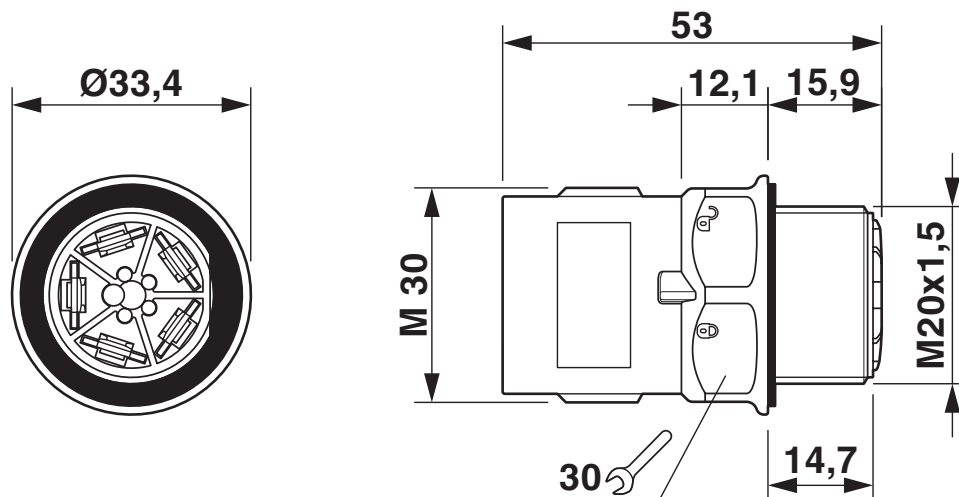
# QPD W 4PE2,5 M20 FC BK - Panel feed-through

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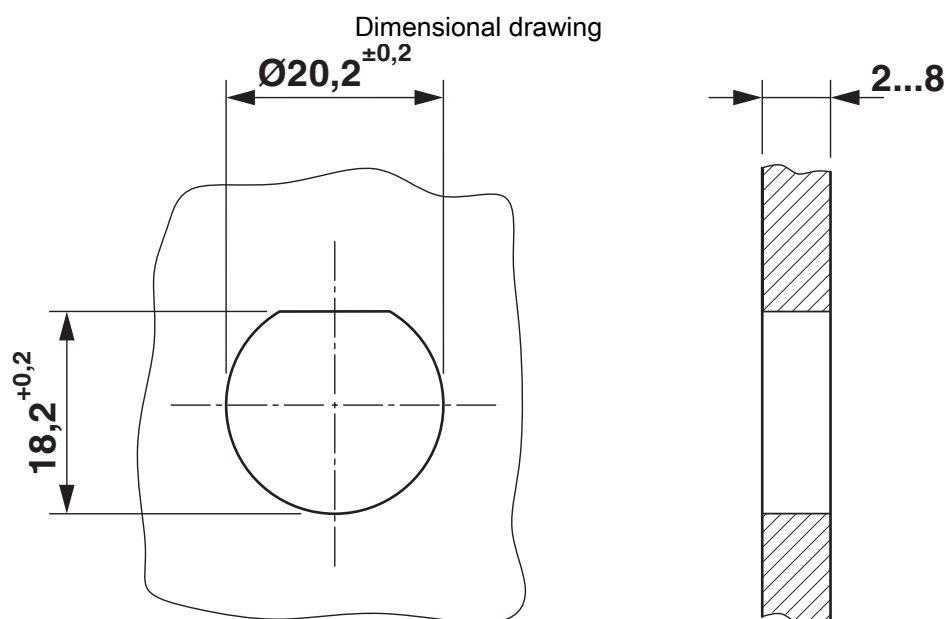
<https://www.phoenixcontact.com/us/products/1403741>

## Drawings

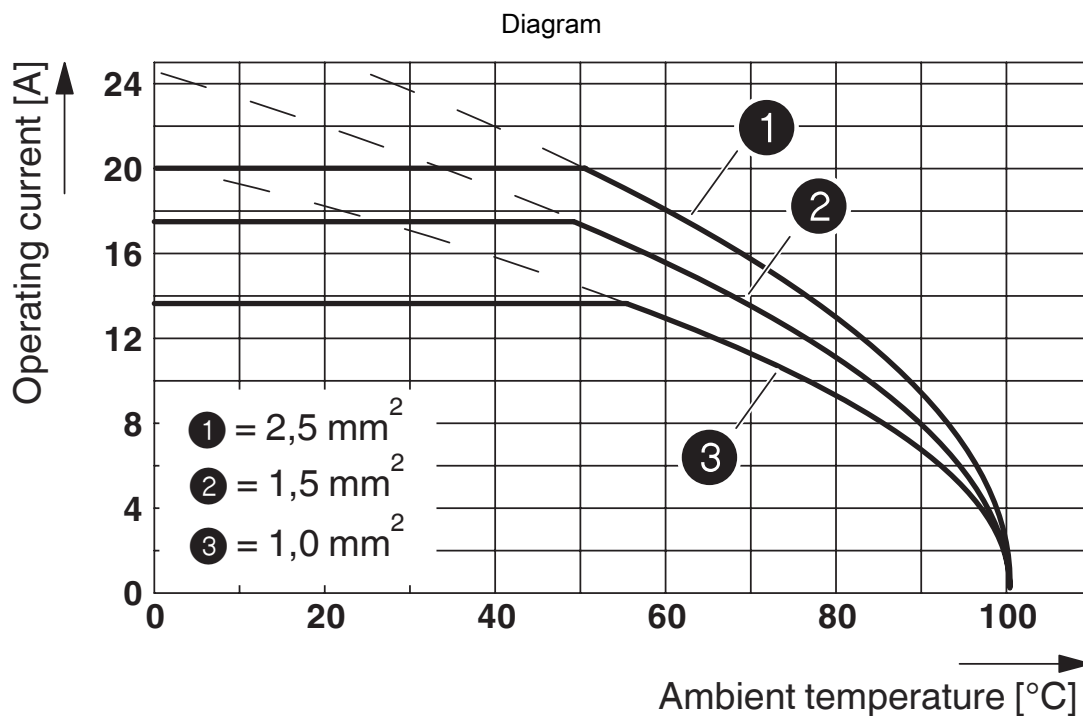
Dimensional drawing



Dimensional drawing of the QPD W 5x2,5 M20 without nut



Housing cutout



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## Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1403741>



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



**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 | Cross section $\text{mm}^2$ |
| keine |  |                       |                   |                             |
|       | 600 V                                    | 10 A                  | - 14              | - 14                        |

|       | <b>cUL Listed</b><br>Approval ID: E468743 |                       |                   |                             |
|-------|---|-----------------------|-------------------|-----------------------------|
|       | Nominal voltage $U_N$                     | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine |   |                       |                   |                             |
|       | 600 V                                     | 10 A                  | - 14              | -                           |

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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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%               |
| EF3.0 Climate Change                    |  |
| CO2e kg                                 | 0.328 kg CO2e                            |