

# QPD W 4PE2,5 9-16 M20 0,5 BK - Panel feed-through



1403731

<https://www.phoenixcontact.com/us/products/1403731>

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Panel feed-through, connection method: Single wires (Welded-on)/ IDC connection, number of positions: 4+PE, M20, Pin, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, PA, black, with QUICKON nut, coding: coded, external cable diameter: 9 mm ... 16 mm, 2.5 mm<sup>2</sup>, wires cut flat at the end, cable length: 0.5 m

## 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                          | 1403731       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF50          |
| Product key                          | AF6ACB        |
| GTIN                                 | 4046356665056 |
| Weight per piece (including packing) | 129.2 g       |
| Weight per piece (excluding packing) | 122.5 g       |
| Customs tariff number                | 85444290      |
| Country of origin                    | PL            |



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|                          |         |
|--------------------------|---------|
| Width                    | 34.6 mm |
| Height                   | 34.6 mm |
| Length                   | 71.8 mm |
| Diameter                 | 34.6 mm |
| Wrench size              | 27 mm   |
| Wrench size for mounting | 27 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                       | Cu                |
| Material Contact surface               | silver-plated     |
| Material Seal                          | NBR               |
| Flammability rating according to UL 94 | V0                |
| Material wire insulation               | PVC/PE/TPE/rubber |

## Cable/line

|                                                                             |                                        |
|-----------------------------------------------------------------------------|----------------------------------------|
| Cable length                                                                | 0.5 m                                  |
| 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                                                     | 9 mm ... 16 mm                         |
| Wire diameter including insulation                                          | 2 mm ... 3.8 mm                        |
| Position marking                                                            | 1, 2, 3, N, PE                         |
| Single wire, color                                                          | black, brown, gray, blue, green/yellow |
| Cable cross section                                                         | 2.5 mm <sup>2</sup>                    |
| Material wire insulation                                                    | PVC/PE/TPE/rubber                      |

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## Mounting

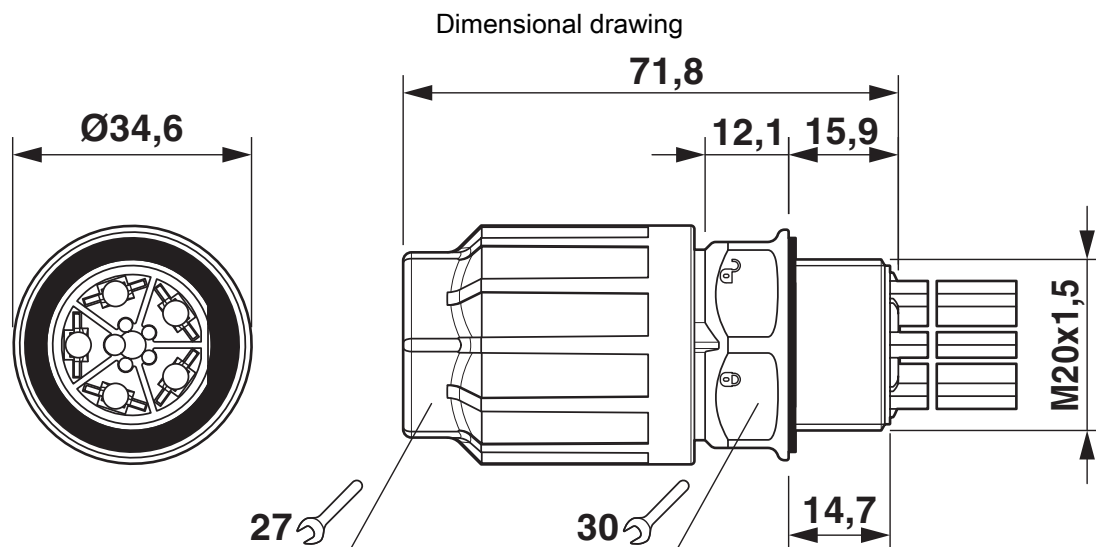
|               |                    |
|---------------|--------------------|
| Mounting type | Front mounting M20 |
|---------------|--------------------|

## Environmental and real-life conditions

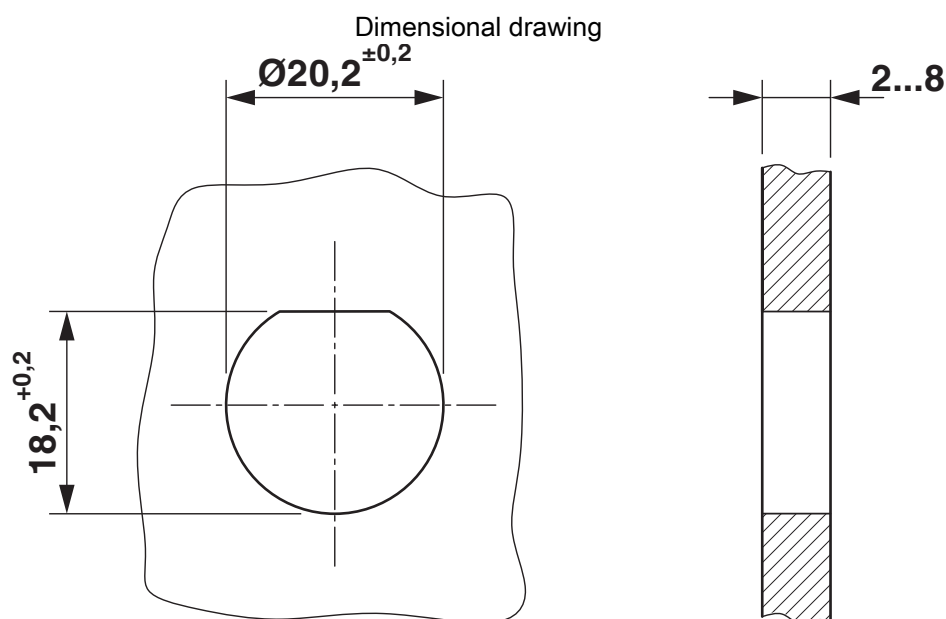
### Ambient conditions

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

## Drawings



Dimensional drawing of the QPD W 5x2,5 M20



Housing cutout

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1403731>



### IECEE CB Scheme

Approval ID: DE1-65875



### DNV GL

Approval ID: TAE00003J5



### VDE Zeichengenehmigung

Approval ID: 40029149



### UL Listed

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                        |



### cUL Listed

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 10.0 | 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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