

# QPD W3PE2,5 9-14 M25 DT BK - Panel feed-through



1423982

<https://www.phoenixcontact.com/us/products/1423982>

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Panel feed-through, product family: QPD, connection method: Push-in connection/ IDC connection, number of positions: 3+PE, M25, Pin, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 400 V, 20 A, PA, black, with QUICKON nut, coding: coded, external cable diameter: 9 mm ... 14 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                          | 1423982             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BF50                |
| Product key                          | BF6ABB              |
| Catalog page                         | Page 486 (C-2-2019) |
| GTIN                                 | 4055626365992       |
| Weight per piece (including packing) | 45.6 g              |
| Weight per piece (excluding packing) | 45.1 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                  |
| Connection profile                 | 3+PE               |
| Position marking                   | 1, 2, 3, PE        |
| Number of connections              | 10                 |
| Number of connections per position | 1                  |
| Coding                             | coded              |

### Insulation characteristics

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

### Connection data

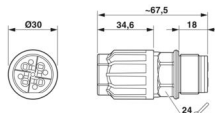
#### Connection technology

|                                                                       |                    |
|-----------------------------------------------------------------------|--------------------|
| Connection method On the device side                                  | Push-in connection |
| Connection method On the field side                                   | IDC connection     |
| Frequency of connections between conductors of the same cross section | max. 10            |
|                                                                       | 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              | 67.5 mm                                                                              |
| Diameter            | 30 mm                                                                                |

### Electrical properties

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

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|                             |          |
|-----------------------------|----------|
| Rated surge voltage (III/2) | 6 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)       | 690 V    |
| Rated voltage (III/3)       | 400 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     |
| 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                                                     | 9 mm ... 14 mm                     |
| Wire diameter including insulation                                          | 2 mm ... 3.6 mm                    |
| Stripping length of the individual wire                                     | 12 mm                              |
| Position marking                                                            | 1, 2, 3, PE                        |
| 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                                                                                                                                                                                                                   |
| Assembly note | For 2.5 mm <sup>2</sup> cables with ferrule, only CRIMPFOX 10S pliers (1212045) with square crimp can be used.<br>CRIMPFOX 6H hexagonal crimping pliers (1212046) cannot be used, because the diameter on the diagonal is too large. |

## Environmental and real-life conditions

### Ambient conditions

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

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|                                         |                   |
|-----------------------------------------|-------------------|
|                                         | IP69K             |
| Ambient temperature (operation)         | -40 °C ... 100 °C |
| Temperature when conductor connected    | -5 °C ... 50 °C   |
| Ambient temperature (storage/transport) | -40 °C ... 100 °C |

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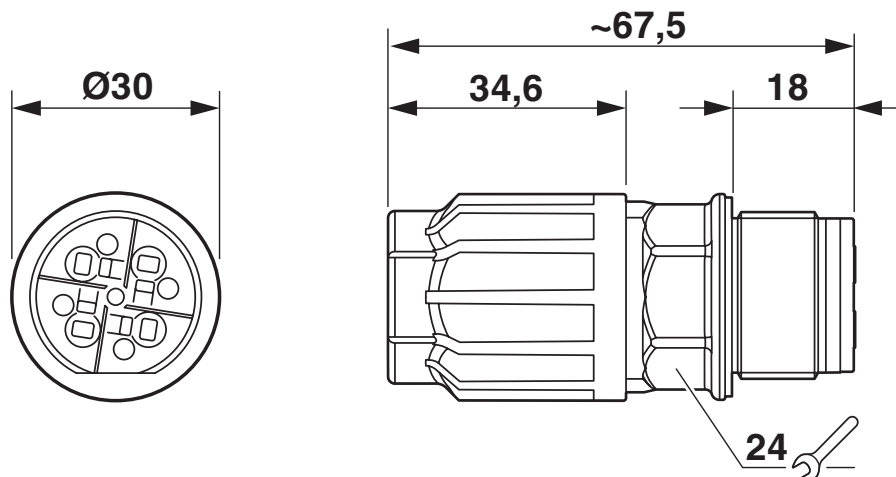


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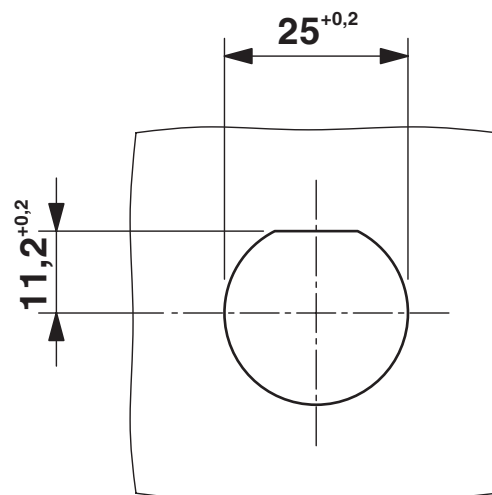
<https://www.phoenixcontact.com/us/products/1423982>

## Drawings

Dimensional drawing



Dimensional drawing



Panel cutout

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1423982>



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



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

|                                                                                   |                                                        |                       |                   |                             |
|-----------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------|-------------------|-----------------------------|
|  | <b>VDE Zeichengenehmigung</b><br>Approval ID: 40029149 |                       |                   |                             |
|                                                                                   | Nominal voltage $U_N$                                  | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| 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 $\text{mm}^2$ |
|                                                                                     | 600 V                                    | 15 A                  | -                 | - 14                        |

|                                                                                     |                                           |                       |                   |                             |
|-------------------------------------------------------------------------------------|-------------------------------------------|-----------------------|-------------------|-----------------------------|
|  | <b>cUL Listed</b><br>Approval ID: E468743 |                       |                   |                             |
|                                                                                     | Nominal voltage $U_N$                     | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                     | 600 V                                     | 15 A                  | - 14              | -                           |

**cULus Listed**

# QPD W3PE2,5 9-14 M25 DT BK - Panel feed-through



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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 |
|-------------|----------|

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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## Accessories

### CP QPD 4X2,5 - Coding profile

1425950

<https://www.phoenixcontact.com/us/products/1425950>



Coding profile red, for pushing into the QUICKON dome and connector, can be positioned in 90° steps.

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### QPD QSK 5X1,5 - Protective cap

1414758

<https://www.phoenixcontact.com/us/products/1414758>



Protective cap plastic, for QPD-QUICKON connection 5x 1.5 mm<sup>2</sup>, IP50

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<https://www.phoenixcontact.com/us/products/1423982>



## QPD QSK BK 5X1,5 FS - Protective cap

1414728

<https://www.phoenixcontact.com/us/products/1414728>

Protective cap, plastic, for QUICKON connection, black, with retaining cord, IP68



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## Q-MU M25 - Nut

1640715

<https://www.phoenixcontact.com/us/products/1640715>

Nut (plastic) to lock the contact carrier from the inside of the device



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## QPD W3PE2,5 9-14 M25 0,5 BK - Panel feed-through

1423980

<https://www.phoenixcontact.com/us/products/1423980>



Panel feed-through, product family: QPD, connection method: Single wires (Welded-on)/ IDC connection, number of positions: 3+PE, M25, 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 ... 14 mm, 2.5 mm<sup>2</sup>, wires cut flat at the end, cable length: 0.5 m

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## QPD W3PE2,5 9-14 M25 1,0 BK - Panel feed-through

1423979

<https://www.phoenixcontact.com/us/products/1423979>



Panel feed-through, product family: QPD, connection method: Single wires (Welded-on)/ IDC connection, number of positions: 3+PE, M25, 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 ... 14 mm, 2.5 mm<sup>2</sup>, wires cut flat at the end, cable length: 1 m

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### QPD W3PE2,5 9-14 M25 FC BK - Panel feed-through

1423981

<https://www.phoenixcontact.com/us/products/1423981>



Panel feed-through, product family: QPD, connection method: Spade connection/ IDC connection, number of positions: 3+PE, M25, 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 ... 14 mm, 2.5 mm<sup>2</sup>

### QPD C3PE2,5 1X9-14 BK - Conductor connector

1423992

<https://www.phoenixcontact.com/us/products/1423992>



Conductor connector, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, PA, black, with one QUICKON nut, coding: Coding profile, external cable diameter: 9 mm ... 14 mm

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## QPD C3PE2,5 2X9-14 BK - Conductor connector

1423990

<https://www.phoenixcontact.com/us/products/1423990>



Conductor connector, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, PA, black, With two QUICKON nuts, coding: Coding profile, external cable diameter: 9 mm ... 14 mm

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## QPD T3PE2,5 2X9-14 BK - T distributor

1424048

<https://www.phoenixcontact.com/us/products/1424048>



T distributor, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, PA, black, With two QUICKON nuts, coding: Coding profile, external cable diameter: 9 mm ... 14 mm

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## QPD T3PE2,5 3X9-14 BK - T distributor

1424046

<https://www.phoenixcontact.com/us/products/1424046>



T distributor, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, PA, black, With three QUICKON nuts, coding: Coding profile, external cable diameter: 9 mm ... 14 mm

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## QPD H3PE2,5 4X9-14 BK - H distributor

1423972

<https://www.phoenixcontact.com/us/products/1423972>



H distributor, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, PA, black, with four QUICKON nuts, coding: Coding profile, external cable diameter: 9 mm ... 14 mm

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## QPD N2,5 9-14 BK - Nut

1423994

<https://www.phoenixcontact.com/us/products/1423994>



Nut, product family: QPD, connection method: IDC connection, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, PA, black, external cable diameter: 9 mm ... 14 mm

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## QPD P3PE2,5 9-14 BK - Connector

1423988

<https://www.phoenixcontact.com/us/products/1423988>



Connector, product family: QPD, connection method: IDC connection, number of positions: 3+PE, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, PA, black, with QUICKON nut, coding: Coding profile, external cable diameter: 9 mm ... 14 mm

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## QSS 22 - Socket wrench

1670206

<https://www.phoenixcontact.com/us/products/1670206>



Allen wrench, for loosening and fastening the QUICKON union nut, WAF 22 mm

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