

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



1423984

<https://www.phoenixcontact.com/us/products/1423984>

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Panel feed-through, product family: QPD, connection method: Single wires (Welded-on), number of positions: 3+PE, M25, Pin, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, PA, black, without QUICKON nut, coding: coded, 2.5 mm<sup>2</sup>, wires cut flat at the end, cable length: 1 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	1423984
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6ABB
Catalog page	Page 484 (C-2-2019)
GTIN	4055626366012
Weight per piece (including packing)	149.2 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
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

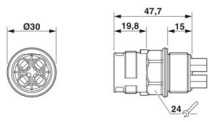
#### Connection technology

Connection method On the device side	Single wires (Welded-on)
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	47.7 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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1423984

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Rated current	20 A
Contact resistance	< 3 mΩ
rated voltage (II/2)	1000 V
rated voltage (III/2)	690 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
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## 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

Cable length	1 m
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 ... 3.6 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	Wire insulation and filler contain halogen

## Mounting

Mounting type	Front mounting M25
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP66
	IP68 (2 m / 24 h)
	IP69K
Ambient temperature (operation)	-40 °C ... 100 °C
Temperature when conductor connected	-5 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 100 °C

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

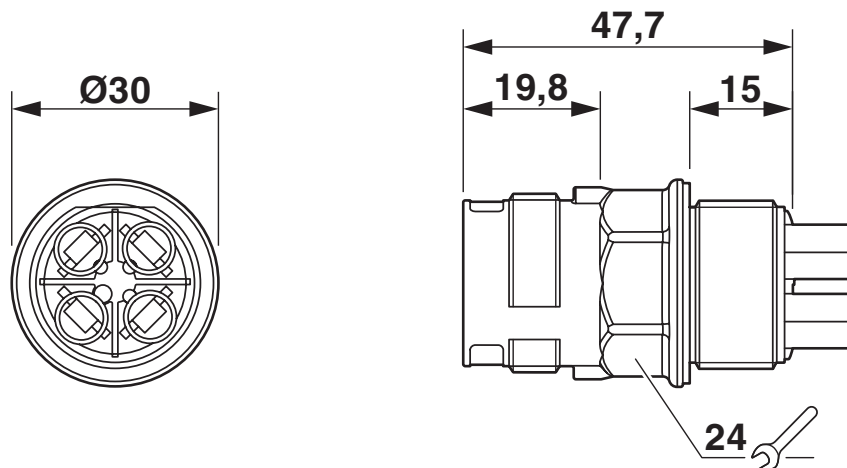
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<https://www.phoenixcontact.com/us/products/1423984>

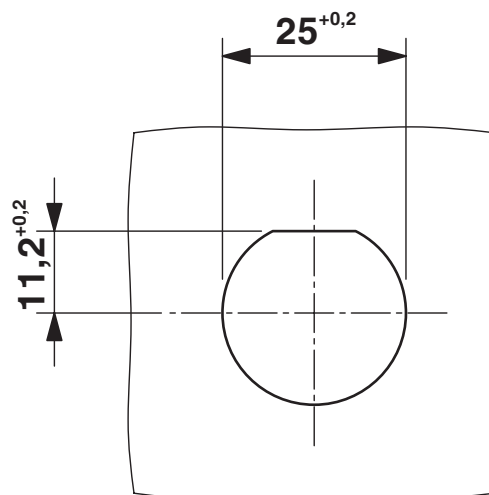


## Drawings

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/1423984>



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



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

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



**UL Listed**  
Approval ID: E468743



**cUL Listed**  
Approval ID: E468743

**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
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### 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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## Mandatory accessories

### QPD P3PE2,5 6-10 BK - Connector

1423987

<https://www.phoenixcontact.com/us/products/1423987>



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: 6 mm ... 10 mm

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

1423988

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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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## QPD N2,5 6-10 BK - Nut

1423993

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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: 6 mm ... 10 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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## Accessories

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

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## 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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## 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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1423984

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

1423983

<https://www.phoenixcontact.com/us/products/1423983>



Panel feed-through, product family: QPD, connection method: Single wires (Welded-on), number of positions: 3+PE, M25, Pin, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, PA, black, without QUICKON nut, coding: coded, 2.5 mm<sup>2</sup>, wires cut flat at the end, cable length: 0.5 m

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

1423986

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Panel feed-through, product family: QPD, connection method: Spade 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, without QUICKON nut, coding: coded, 2.5 mm<sup>2</sup>

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

1423985

<https://www.phoenixcontact.com/us/products/1423985>



Panel feed-through, product family: QPD, connection method: Push-in 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, without QUICKON nut, coding: coded, 2.5 mm<sup>2</sup>

## QPD H3PE2,5 BK - H distributor

1423973

<https://www.phoenixcontact.com/us/products/1423973>



H distributor, product family: QPD, connection method: IDC connection/ QUICKON fast connection, number of positions: 3+PE, 1 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, 690 V, 20 A, PA, black, without QUICKON nut, coding: Coding profile

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## QPD C3PE2,5 1X6-10 BK - Conductor connector

1423991

<https://www.phoenixcontact.com/us/products/1423991>



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: 6 mm ... 10 mm

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

1423992

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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 T3PE2,5 2X6-10 BK - T distributor

1424047

<https://www.phoenixcontact.com/us/products/1424047>



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: 6 mm ... 10 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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## 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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