

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, product family: QPD, connection method: Spade connection (For slip-on sleeves according to DIN 46247-2), number of positions: 4+PE, M20, Pin, 1 mm² ... 2.5 mm², 690 V, 15 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	BF6ACB
Catalog page	Page 485 (C-2-2019)
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

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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
	1 mm² ... 2.5 mm²
Connection cross section AWG	16 ... 14
Tightening torque Union nut	10 Nm
	5 Nm
Wrench size Union nut	27 mm
	30 mm

Dimensions

Dimensional drawing	
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
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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	15 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	15 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	max. 50
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Material specifications

Color	black (RAL 9005)
Material Housing	PA
	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
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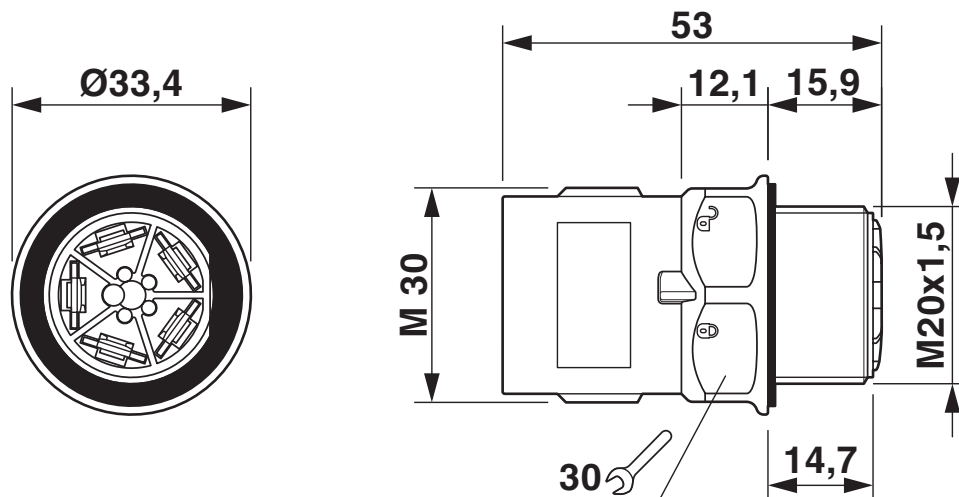
Environmental and real-life conditions

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 ... 80 °C

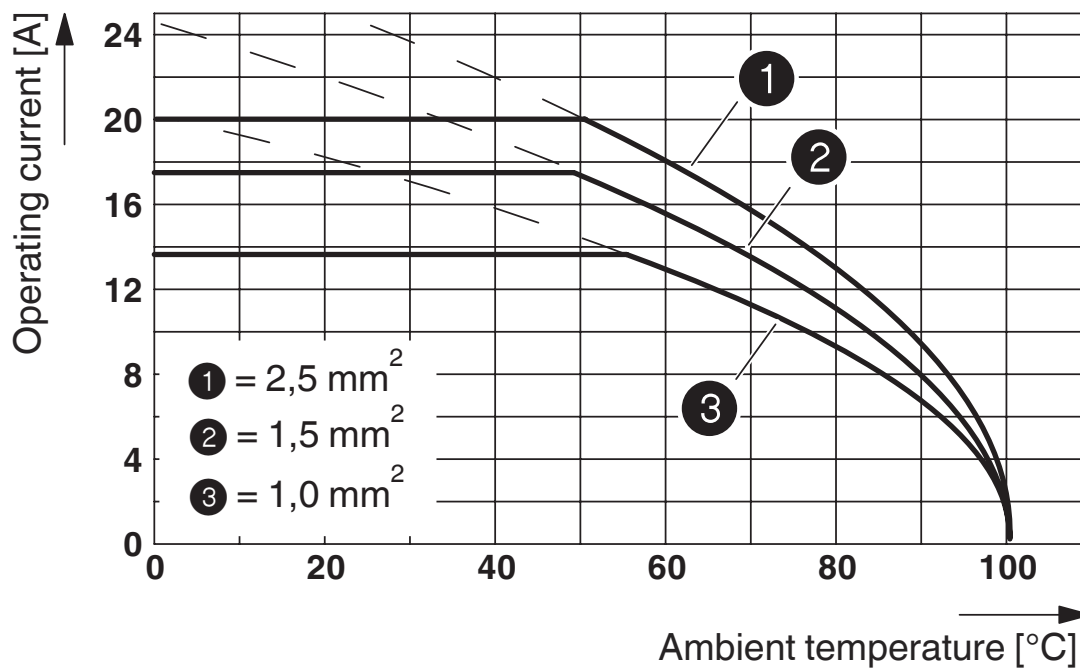
Drawings

Dimensional drawing



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

Diagram

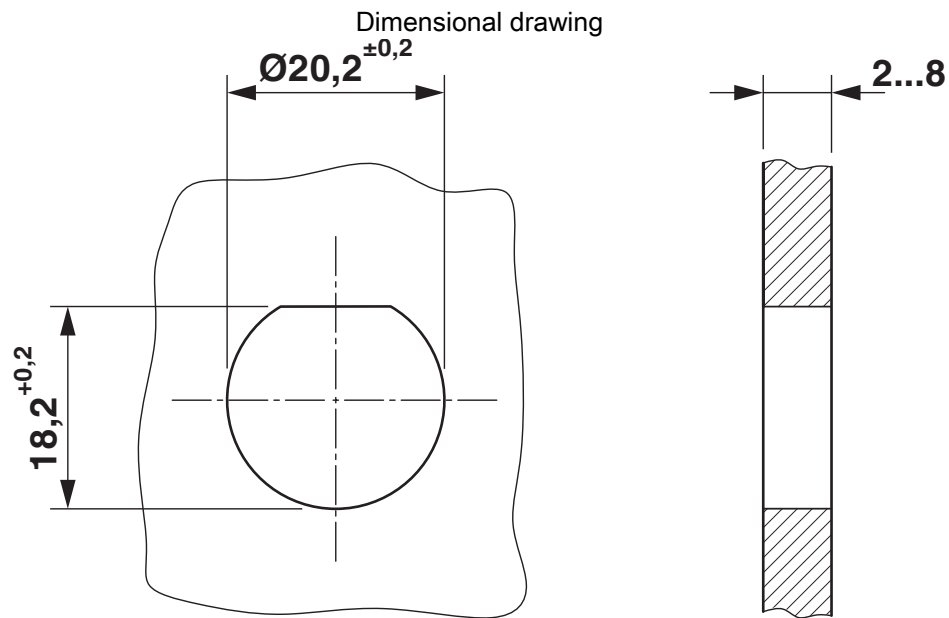


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Housing cutout

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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



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



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 mm^2
Use group keine				
	600 V	10 A	-	- 14

 cUL Listed Approval ID: E468743				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group keine				
	600 V	10 A	- 14	-

cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27440602
ECLASS-13.0	27440602
ECLASS-12.0	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 P 4PE2,5 6-11 BK - Connector

1403784

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Connector, product family: QPD, connection method: IDC connection, number of positions: 4+PE, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, external cable diameter: 6 mm ... 11 mm

QPD P 4PE2,5 6-11 TL BK - Connector

1039563

<https://www.phoenixcontact.com/us/products/1039563>



Connector, product family: QPD, connection method: IDC connection, number of positions: 4+PE, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, with QUICKON nut, external cable diameter: 6 mm ... 11 mm

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QPD P 4PE2,5 9-16 BK - Connector

1403782

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Connector, product family: QPD, connection method: IDC connection, number of positions: 4+PE, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, with QUICKON nut, external cable diameter: 9 mm ... 16 mm

QPD P 4PE2,5 9-16 TL BK - Connector

1039561

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Connector, product family: QPD, connection method: IDC connection, number of positions: 4+PE, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, with QUICKON nut, external cable diameter: 9 mm ... 16 mm

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QPD N 4PE2,5 6-11 BK - Nut

1459663

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QUICKON nut, black, 4+PE-pos., 1.0 mm² ... 2.5 mm²/690 V/20 A, for cables with 6 mm ... 11 mm diameter.

QPD N 4PE2,5 9-16 BK - Nut

1459647

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QUICKON nut, black, 4+PE-pos., 1.0 mm² ... 2.5 mm²/690 V/20 A, for cables with 9 mm ... 16 mm diameter.

Accessories

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

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CP-QPD 5X2,5 - Coding profile

1404530

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Coding profile, red, for insertion into the 5-pos. QUICKON dome and connector, can be positioned in 72° increments.

QPD QSK BK 5X2,5 FS - Protective cap

1404525

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



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QPD QSK 5X2,5 - Protective cap

1404528

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Protective cap, transparent plastic, for 5x 2.5 mm² QPD QUICKON connection, IP50.

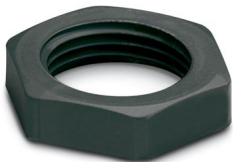


Q-MU-M20 BK - Flat nut

1586099

<https://www.phoenixcontact.com/us/products/1586099>

Flat nut, color: black



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

1403737

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Panel feed-through, product family: QPD, connection method: Single wires (Welded-on), number of positions: 4+PE, M20, Pin, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, without QUICKON nut, coding: coded, 2.5 mm², wires cut flat at the end, cable length: 0.5 m

QPD W 4PE2,5 M20 1,0 BK - Panel feed-through

1403739

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Panel feed-through, product family: QPD, connection method: Single wires (Welded-on), number of positions: 4+PE, M20, Pin, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, without QUICKON nut, coding: coded, 2.5 mm², wires cut flat at the end, cable length: 1 m

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QPD W 4PE2,5 M25 0,5 BK - Panel feed-through

1582565

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Panel feed-through, product family: QPD, connection method: Single wires (Welded-on), number of positions: 4+PE, M25, Pin, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, without QUICKON nut, coding: coded, 2.5 mm², wires cut flat at the end, cable length: 0.5 m

QPD W 4PE2,5 M25 1,0 BK - Panel feed-through

1582566

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Panel feed-through, product family: QPD, connection method: Single wires (Welded-on), number of positions: 4+PE, M25, Pin, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, without QUICKON nut, coding: coded, 2.5 mm², wires cut flat at the end, cable length: 1 m

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QPD W 4PE2,5 M25 FC BK - Panel feed-through

1582567

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Panel feed-through, product family: QPD, connection method: Spade connection (For slip-on sleeves according to DIN 46247-2), number of positions: 4+PE, M25, Pin, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, without QUICKON nut, coding: coded

QPD H 4PE2,5 BK - H distributor

1406370

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QUICKON H-distributor, black, 4+PE pos., 690 V/20 A, without QUICKON nut

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QPD C 4PE2,5 1X6-11 BK - Conductor connector

1403834

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QUICKON cable connector, black, 4+PE-pos., 1.0 mm² ... 2.5 mm² / 690 V / 20 A, for 6 mm ... 11 mm cable diameter.

QPD C 4PE2,5 1X9-16 BK - Conductor connector

1403831

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QUICKON cable connector, black, 4+PE-pos., 1.0 mm² ... 2.5 mm² / 690 V / 20 A, for 9 mm ... 16 mm cable diameter.

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

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QPD T 4PE 2X6-11 BK - T distributor

1405403

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QUICKON T-distributor, black, 4+PE-pos., 1.0 mm² ... 2.5 mm²/690 V/20 A, for cable diameter of 6 mm ... 11 mm, with two QUICKON nuts

QPD T 4PE 2X9-16 BK - T distributor

1405404

<https://www.phoenixcontact.com/us/products/1405404>



QUICKON T-distributor, black, 4+PE-pos., 1.0 mm² ... 2.5 mm²/690 V/20 A, for cable diameter of 9 mm ... 16 mm, with two QUICKON nuts

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QSS 27 - Socket wrench

1670646

<https://www.phoenixcontact.com/us/products/1670646>



Allen wrench, for loosening and fastening the QUICKON union nut, WAF 27 mm

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