

QPD W 4PE2,5 9-16 M25 DT BK - Panel feed-through



1411433

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QUICKON panel feed-through, black, 4+PE-pos., 1.0 mm² ... 2.5 mm²/690 V/20 A, with QUICKON nut, for cable diameter of 9 mm ... 16 mm, with push-in spring-cage connection.

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	1411433
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6ACB
Catalog page	Page 486 (C-2-2019)
GTIN	4046356932325
Weight per piece (including packing)	62 g
Weight per piece (excluding packing)	62 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	Push-in connection
	IDC connection
Frequency of connections between conductors of the same cross section	max. 10
	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	74.1 mm
Diameter	34.6 mm
Wrench size	27 mm

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Wrench size for mounting	27 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	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 (QUICKON connections max. 10)
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Material specifications

Color	black (RAL 9005)
Material Housing	PA
	Cu
	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 ... 16 mm
Wire diameter including insulation	2 mm ... 3.8 mm
Stripping length of the individual wire	12 mm
Position marking	1, 2, 3, N, PE
Material wire insulation	PVC/PE/TPE/rubber

Mounting

Mounting type	Front mounting M25
Assembly note	For 2.5 mm ² cables with ferrule, only CRIMPFOX 10S pliers (1212045) with square crimp can be used. 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

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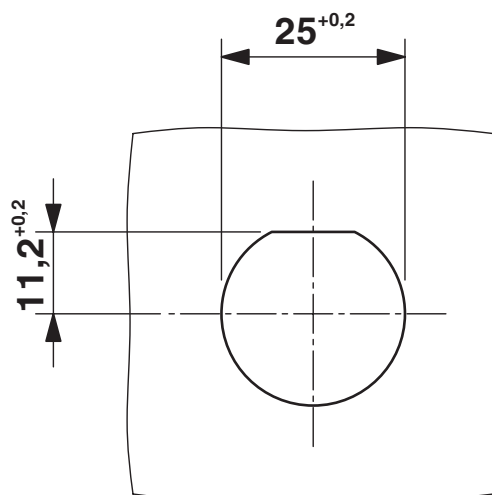
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Degree of protection	IP66
	IP68 (2 m / 24 h)
	IP69K
Ambient temperature (operation)	-40 °C ... 100 °C
Temperature when conductor connected	-5 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C

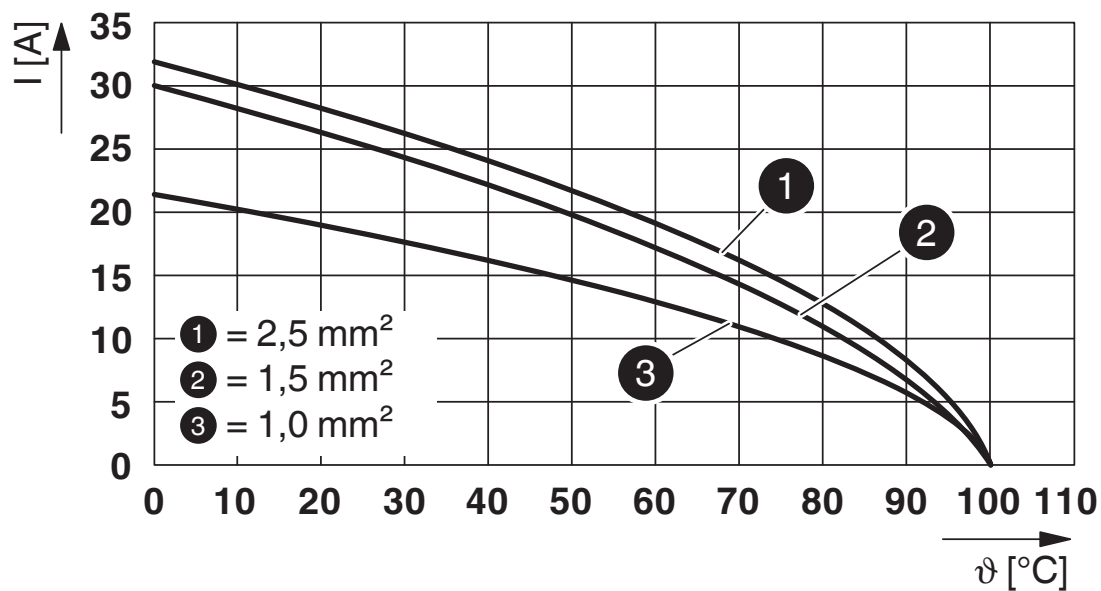
Drawings

Dimensional drawing



Panel cutout

Diagram



Derating diagram

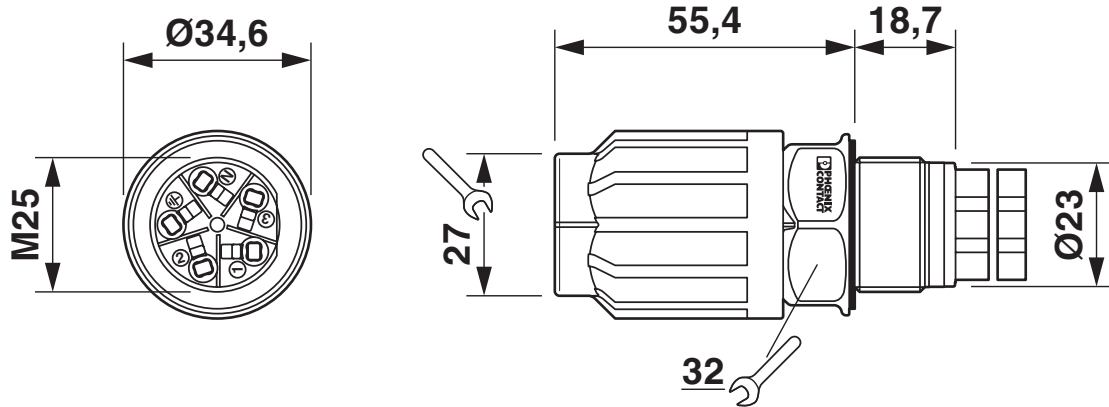
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Dimensional drawing



Dimensional drawing: QPD W...

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1411433>



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



DNV GL
Approval ID: TAE00003J5

	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

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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Accessories

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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SEALING PLUG 14X22 RD - Closing cap

1400270

<https://www.phoenixcontact.com/us/products/1400270>

Closing cap, for threads pluggable, color: red



Q-MU M20 - Nut

1640702

<https://www.phoenixcontact.com/us/products/1640702>

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



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

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Panel feed-through, product family: QPD, connection method: Single wires (Welded-on)/ IDC connection, number of positions: 4+PE, M20, Pin, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, with QUICKON nut, coding: coded, external cable diameter: 9 mm ... 16 mm, 2.5 mm², wires cut flat at the end, cable length: 0.5 m

QPD W 4PE2,5 9-16 M20 1,0 BK - Panel feed-through

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Panel feed-through, product family: QPD, connection method: Single wires (Welded-on)/ IDC connection, number of positions: 4+PE, M20, Pin, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, black, with QUICKON nut, coding: coded, external cable diameter: 9 mm ... 16 mm, 2.5 mm², wires cut flat at the end, cable length: 1 m

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

1403735

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Panel feed-through, product family: QPD, connection method: Spade connection (For slip-on sleeves according to DIN 46247-2)/ IDC connection, number of positions: 4+PE, M20, Pin, 1 mm² ... 2.5 mm², 690 V, 15 A, PA, black, with QUICKON nut, coding: coded, external cable diameter: 9 mm ... 16 mm

QPD W 4PE2,5 9-16 M25 0,5 BK - Panel feed-through

1582561

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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, with QUICKON nut, coding: coded, external cable diameter: 9 mm ... 16 mm, 2.5 mm², wires cut flat at the end, cable length: 0.5 m

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QPD W 4PE2,5 9-16 M25 1,0 BK - Panel feed-through

1582562

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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, with QUICKON nut, coding: coded, external cable diameter: 9 mm . . . 16 mm, 2.5 mm², wires cut flat at the end, cable length: 1 m

QPD W 4PE2,5 9-16 M25 FC BK - Panel feed-through

1582563

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QUICKON panel feed-through, black, 4+PE-pos. 1.0 mm² ... 2.5 mm²/690 V/20 A, with QUICKON nut, for 9 mm ... 16 mm cable diameter, M25 connection thread with 5 slip-on contacts for slip-on sleeves according to DIN 46247-2

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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 C 4PE2,5 2X9-16 BK - Conductor connector

1403836

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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 9-16 M25 DT BK - Panel feed-through



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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

QPD T 4PE 3X9-16 BK - T distributor

1405402

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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 9 mm ... 16 mm, with three QUICKON nuts

QPD W 4PE2,5 9-16 M25 DT BK - Panel feed-through



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QPD H 4PE2,5 4X9-16 BK - H distributor

1406369

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QUICKON H-distributor, black, 4 pos. +PE, 1.0 mm² ... 2.5 mm² / 690 V / 20 A, for cable diameters of 9 mm ... 16 mm, with a sealing bolt.

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.

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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

QPD W 4PE2,5 9-16 M25 DT BK - Panel feed-through



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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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