

QPD W 4PE1,5 M25 FC BK - Panel feed-through



1414738

<https://www.phoenixcontact.com/us/products/1414738>

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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, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, without QUICKON nut, coding: Coding profile, 1.5 mm²

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	1414738
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6ACA
Catalog page	Page 478 (C-2-2019)
GTIN	4055626033532
Weight per piece (including packing)	26.7 g
Weight per piece (excluding packing)	25.01 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 5x1,5
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	Coding profile

Data management status

Article revision	01
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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	0.5 mm ² ... 1.5 mm ²
Conductor cross section solid	0.5 mm ² ... 1.5 mm ²
Connection cross section AWG	20 ... 16
Tightening torque Union nut	8 Nm
Tightening torque Locking nut	5 Nm

Dimensions

Dimensional drawing	
Width	30 mm
Height	30 mm
Length	47.9 mm
Diameter	30 mm
Dimensions of slip-on connection	4.8 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	17.5 A (in accordance with IEC 61984 at ambient temperature: 30°C)
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	17.5 A (in accordance with IEC 61984 at ambient temperature: 30°C)

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

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	1.6 mm ... 3 mm
Position marking	1, 2, 3, N, PE
Cable cross section	1.5 mm ²
Material wire insulation	PVC/PE/TPE/rubber

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
Impact strength	IK07

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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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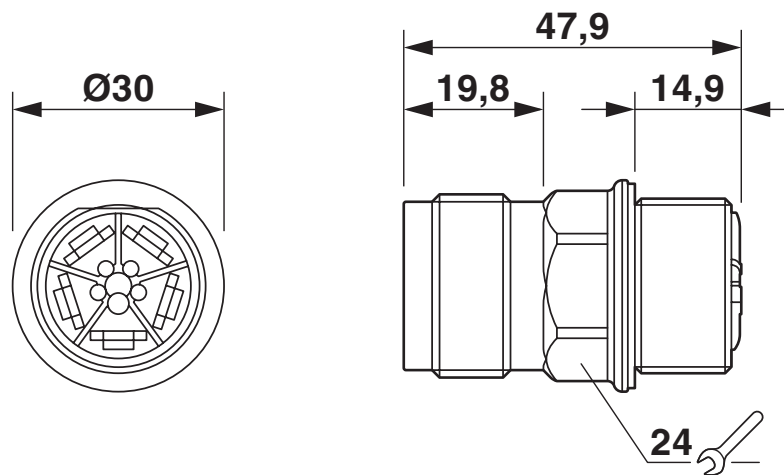


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Drawings

Dimensional drawing



Dimensional drawing



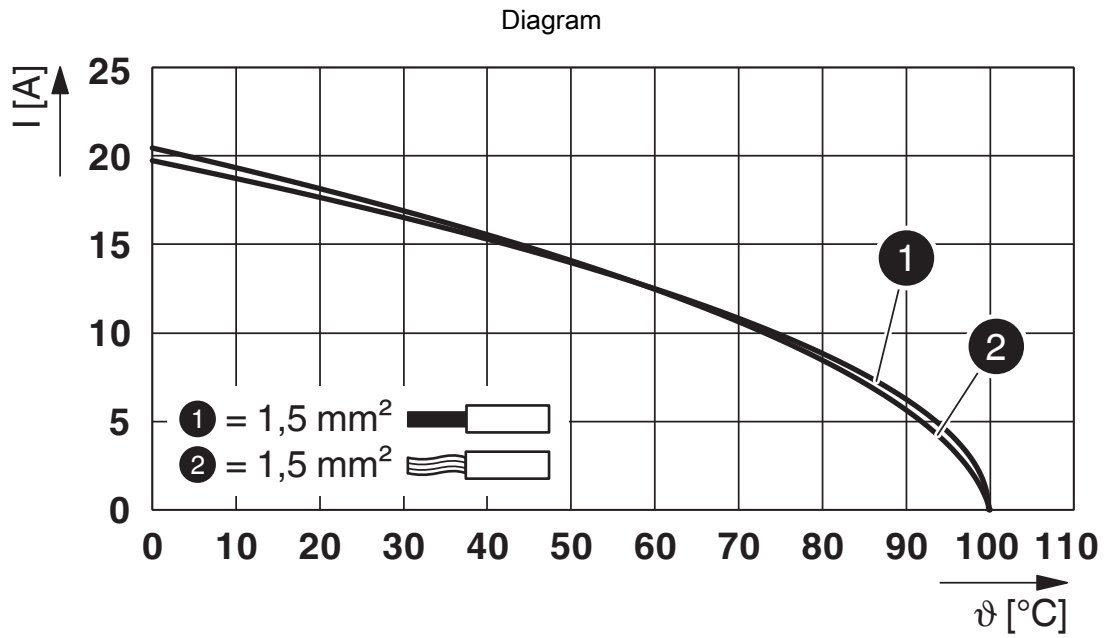
Panel cutout

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Derating diagram

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Approvals

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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
600 V	8 A	-	- 16



cUL Listed
Approval ID: E468743

Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
600 V	8 A	- 16	-

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
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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 4PE1,5 5-10 BK - Connector

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Connector, product family: QPD, connection method: IDC connection, number of positions: 4+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, with QUICKON nut, coding: Coding profile, external cable diameter: 6 mm ... 10 mm

QPD P 4PE1,5 9-14 BK - Connector

1414750

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Connector, product family: QPD, connection method: IDC connection, number of positions: 4+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, with QUICKON nut, coding: Coding profile, external cable diameter: 10 mm ... 14 mm

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QPD N 4PE1,5 5-10 BK - Nut

1415101

<https://www.phoenixcontact.com/us/products/1415101>



Nut, product family: QPD, connection method: IDC connection, number of positions: 4+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, external cable diameter: 6 mm ... 10 mm

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



Accessories

QPD W 4PE1,5 M25 FC BK - Panel feed-through

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QPD QSK 5X1,5 - Protective cap

1414758

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Protective cap plastic, for QPD-QUICKON connection 5x 1.5 mm², IP50



CP-QPD 5X1,5 - Coding profile

1414760

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



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QPD QSK BK 5X1,5 FS - Protective cap

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



QPD W 4PE1,5 M25 0,5 BK - Panel feed-through

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Panel feed-through, product family: QPD, connection method: Single wires (Welded-on), number of positions: 4+PE, M25, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, without QUICKON nut, coding: Coding profile, 1.5 mm², wires cut flat at the end, cable length: 0.5 m

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QPD W 4PE1,5 M25 1,0 BK - Panel feed-through

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Panel feed-through, product family: QPD, connection method: Single wires, number of positions: 4+PE, M25, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, without QUICKON nut, coding: Coding profile, 1.5 mm², cable length: 1 m

QPD H 4PE1,5 BK - H distributor

1414757

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H distributor, product family: QPD, connection method: IDC connection/ QUICKON fast connection, number of positions: 4+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, without QUICKON nut, coding: Coding profile

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QPD C 4PE1,5 1X5-10 BK - Conductor connector

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Conductor connector, product family: QPD, connection method: IDC connection, number of positions: 4+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, with one QUICKON nut, coding: Coding profile, external cable diameter: 6 mm ... 10 mm

QPD C 4PE1,5 1X9-14 BK - Conductor connector

1414741

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Conductor connector, product family: QPD, connection method: IDC connection, number of positions: 4+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, with one QUICKON nut, coding: Coding profile, external cable diameter: 10 mm ... 14 mm

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QPD T 4PE1,5 2X5-10 BK - T distributor

1414751

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T distributor, product family: QPD, connection method: IDC connection, number of positions: 4+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, With two QUICKON nuts, coding: Coding profile, external cable diameter: 6 mm ... 10 mm

QPD T 4PE1,5 2X9-14 BK - T distributor

1414752

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T distributor, product family: QPD, connection method: IDC connection, number of positions: 4+PE, 0.5 mm² ... 1.5 mm², 690 V, 17.5 A, PA, black, With two QUICKON nuts, coding: Coding profile, external cable diameter: 10 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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