

QPD W4X2,5 M25 FC GY - Panel feed-through



1424010

<https://www.phoenixcontact.com/us/products/1424010>

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Panel feed-through, product family: QPD, connection method: Spade connection, M25, Pin, 1 mm² ... 2.5 mm², 690 V, 20 A, PA, gray, without QUICKON nut, coding: coded, 2.5 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	1424010
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF50
Product key	BF6ABB
GTIN	4055626366258
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 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
Position marking	1, 2, 3, 4
Number of connections	10
Number of connections per position	1
Coding	coded

Data management status

Article revision	01
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Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Connection data

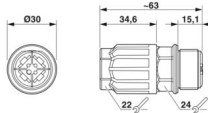
Connection technology

Connection method On the device side	Spade connection
Frequency of connections between conductors of the same cross section	max. 10

Conductor connection

Conductor cross section flexibel	1 mm ² ... 2.5 mm ²
Conductor cross section solid	1 mm ² ... 2.5 mm ²
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
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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)	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	light gray (RAL 7035)
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	2 mm ... 3.6 mm
Position marking	1, 2, 3, 4
Cable cross section	2.5 mm ²
Material wire insulation	PVC/PE/TPE/rubber
Halogen-free	yes

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
	Touch-proof when not plugged in (IP2X)
Impact strength	IK07
Ambient temperature (operation)	-40 °C ... 100 °C
Temperature when conductor connected	-5 °C ... 50 °C

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1424010

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Ambient temperature (storage/transport)

-40 °C ... 100 °C

QPD W4X2,5 M25 FC GY - Panel feed-through

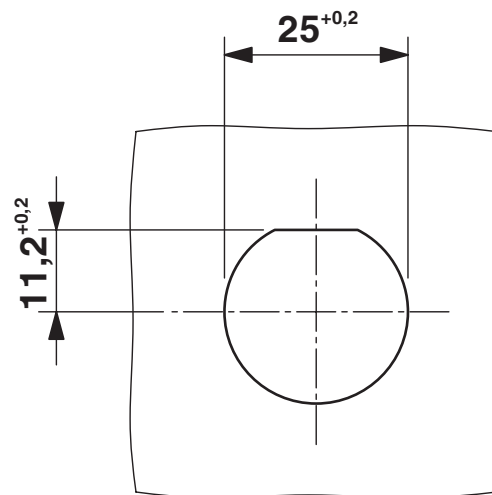
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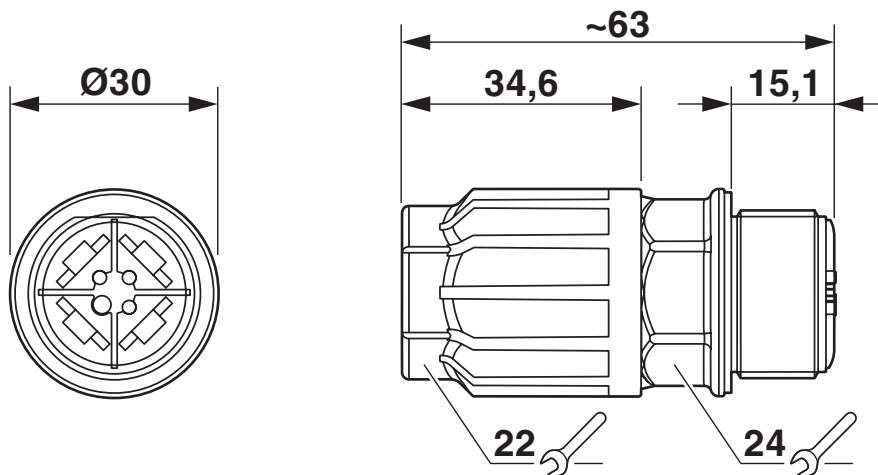
Drawings

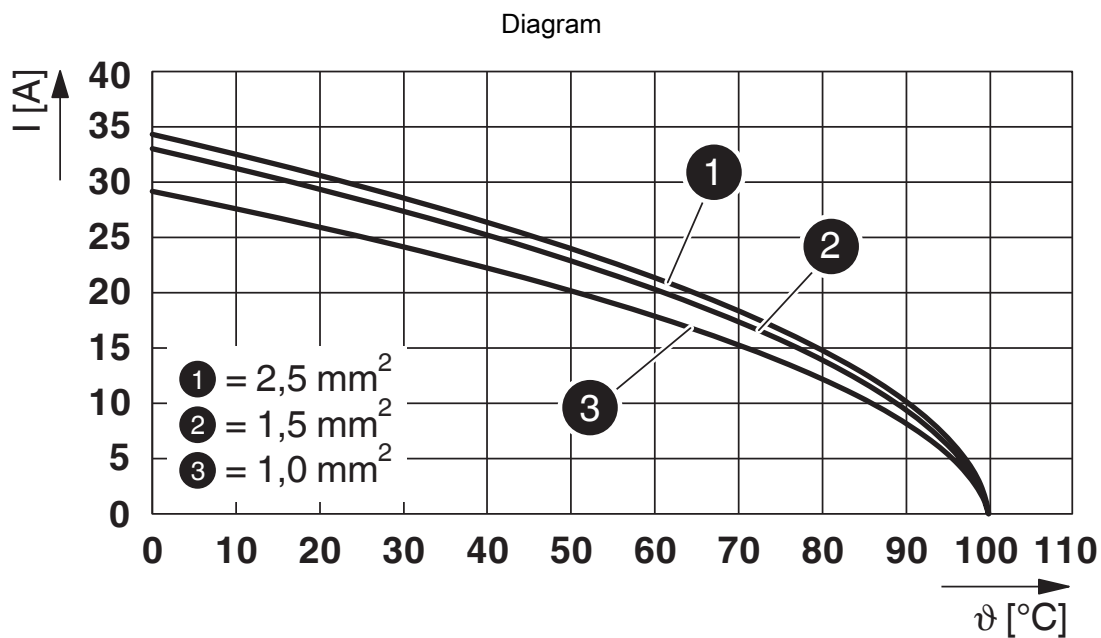
Dimensional drawing



Panel cutout

Dimensional drawing





Derating diagram

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1424010

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1424010>



IECEE CB Scheme
Approval ID: DE1-65875



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

VDE Zeichengenehmigung Approval ID: 40029149				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Only flexible conductors	400 V	20 A	-	1.5 - 2.5
Only rigid conductors	690 V	20 A	-	1.5 - 2.5

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1424010

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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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1424010

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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

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

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 mm², IP50



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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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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