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Feed-through terminal block with plug-in connection technology for the transmission of signals already electrically isolated. Screw connection technology

Product description

Feed-through terminal block with plug-in connection technology for the transmission of signals already electrically isolated. The feed-through terminal block supports NFC communication.

Commercial data

Item number	2902068
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C404
Product key	DK112Z
GTIN	4046356649957
Weight per piece (including packing)	91.8 g
Weight per piece (excluding packing)	82 g
Customs tariff number	85389099
Country of origin	DE

MINI MCR-2-TB - Feed-through terminal block



2902068

<https://www.phoenixcontact.com/us/products/2902068>

Technical data

Notes

Note on application

Note on application

As things stand now, we are preparing the product so that, as of December 11, 2027, it will comply with the requirements of the EU Cyber Resilience Act (CRA) based on the information currently available regarding the CRA.

Utilization restriction

EMC note

EMC: class A product, see manufacturer's declaration in the download area

Product properties

Product type

Feed-through terminal block

Product family

MINI Analog Pro

Electrical properties

Current carrying capacity

4 A (Total)

Electrical isolation

Overvoltage category

II

Pollution degree

2

Supply

Nominal supply voltage

24 V AC/DC

Input data

Signal: Voltage/current

Number of inputs

4

Max. voltage input signal

30 V AC/DC (per channel)

Max. current input signal

1 A (per channel)

Connection data

Connection method

Screw connection

Stripping length

10 mm

Conductor cross-section rigid

0.14 mm² ... 2.5 mm²

Conductor cross-section flexible

0.14 mm² ... 2.5 mm²

Conductor cross-section AWG

24 ... 12

Tightening torque

0.5 Nm ... 0.6 Nm

Ex data

Ex installation (EPL)

Gc

Div. 2

Dimensions

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Width	6.2 mm
Height	109.81 mm
Depth	119.2 mm

Material specifications

Color	gray (RAL 7042)
Housing material	PBT
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 2
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 2
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 2

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 (not assessed by UL)
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)

Altitude range (≤ 2000 m)

Altitude	≤ 2000 m (The technical data refers to altitudes ≤2000 m above mean sea level. For altitudes >2000 m above mean sea level, refer to the data sheet.)
Ambient temperature (operation)	-40 °C ... 70 °C
Rated insulation voltage	50 V AC/DC

Altitude range (≤ 3000 m)

Height range	> 2000 m ... 3000 m
Ambient temperature (operation)	-40 °C ... 63 °C
Rated insulation voltage	40 V AC/DC

Altitude range (≤ 4000 m)

Height range	> 3000 m ... 4000 m
Ambient temperature (operation)	-40 °C ... 56 °C
Rated insulation voltage	30 V AC/DC

Altitude range (≤ 5000 m)

Height range	> 4000 m ... 5000 m
Ambient temperature (operation)	-40 °C ... 49 °C
Rated insulation voltage	30 V AC/DC

Approvals

CE

Certificate	CE-compliant
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ATEX

Identification	Ⓔ II 3 G Ex ec IIC Gc
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Certificate	PxCIF16ATEX2901993U
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IECEX

Identification	Ex ec IIC Gc
Certificate	IECEX BVS 22.0005U

CCC / China-Ex

Identification	Ex ec IIC Gc
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UL, USA/Canada

Identification	UL 508 Listed
	Class I, Div. 2, Groups A, B, C, D T6
	Class I, Zone 2, Group IIC T6

Shipbuilding approval

Certificate	DNV GL TAA00002UA
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Shipbuilding data

Temperature	B
Humidity	B
Vibration	A
EMC	A
Enclosure	Required protection according to the Rules shall be provided upon installation on board

Standards and regulations

GB Standard

Standards/regulations	GB/T 3836.1
	GB/T 3836.3

Mounting

Mounting type	NS 35/7,5
	NS 35/15
	NS 35/15-2,3
	DIN rail mounting
Mounting position	any

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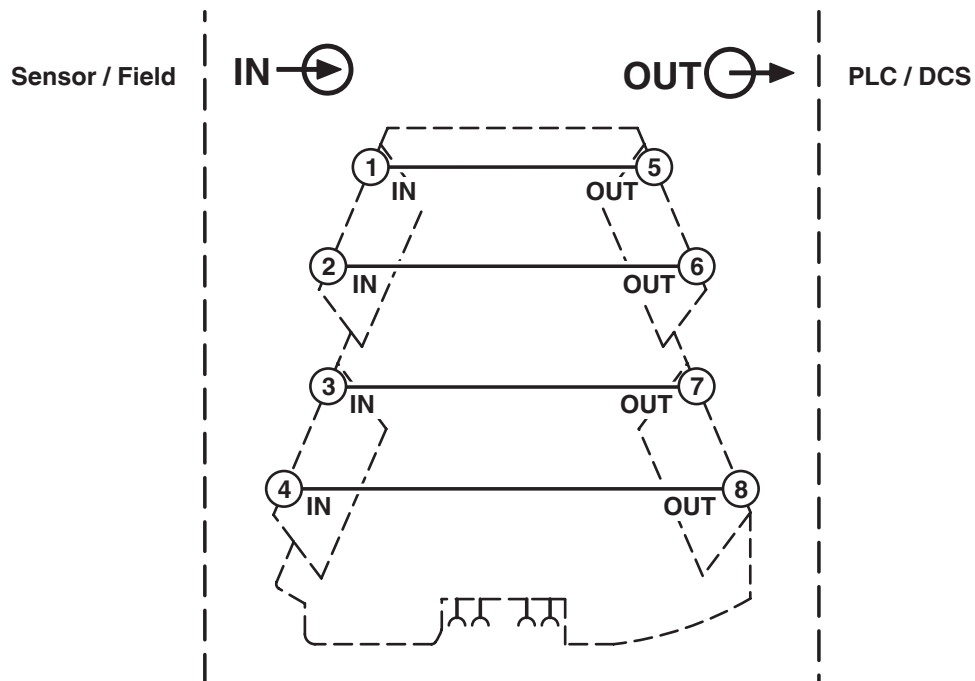
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Drawings

Block diagram



MINI MCR-2-TB - Feed-through terminal block



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2902068>



UL Listed

Approval ID: FILE E 238705



cUL Listed

Approval ID: FILE E 238705



CCC

Approval ID: 2022122313115722

DNV

Approval ID: TAA00002UA



cUL Listed

Approval ID: E196811



UL Listed

Approval ID: E196811



IECEx

Approval ID: IECEx BVS 22.0005U

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Classifications

ECLASS

ECLASS-13.0	27371392
ECLASS-15.0	27371392

ETIM

ETIM 10.0	EC002886
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UNSPSC

UNSPSC 21.0	39121100
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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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