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

2902068

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CRA-READY



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

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

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

ATEX

Identification	Ⓔx II 3 G Ex ec IIC Gc

Certificate	PxCIF16ATEX2901993U

IECEx

Identification	Ex ec IIC Gc
Certificate	IECEx BVS 22.0005U

CCC / China-Ex

Identification	Ex ec IIC Gc

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

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

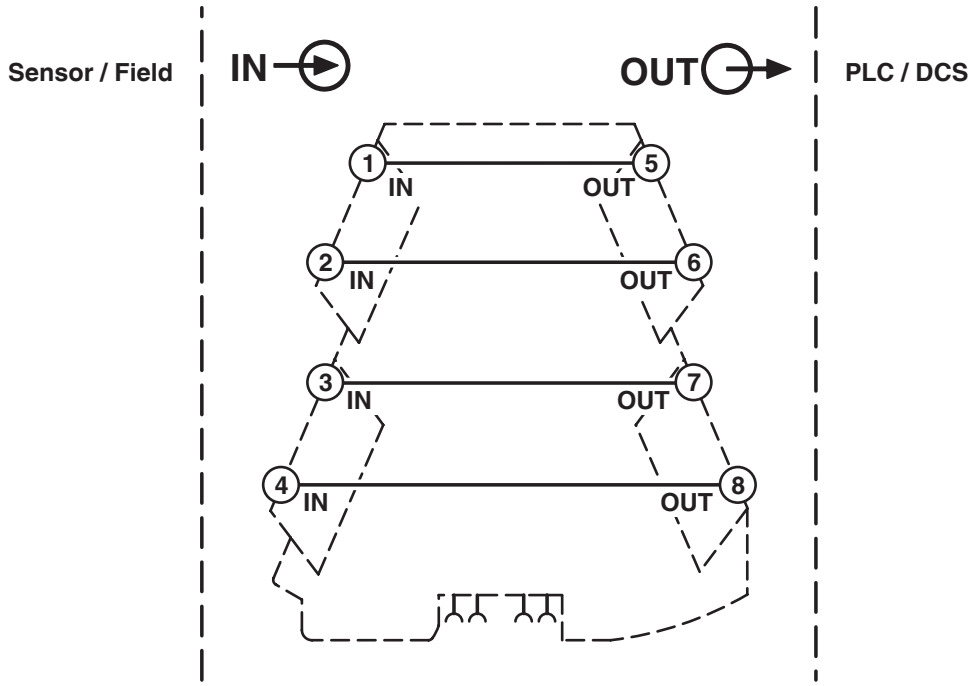
Standards/regulations	GB/T 3836.1
	GB/T 3836.3

Mounting

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

Drawings

Block diagram



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

Classifications

ECLASS

ECLASS-13.0	27371392
ECLASS-15.0	27371392

ETIM

ETIM 10.0	EC002886

UNSPSC

UNSPSC 21.0	39121100

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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