MINI MCR-SL-PTB-FM - Power terminal block

2902958

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The MINI MCR-SL-PTB-FM(-SP) power terminal block is used to supply the supply voltage to the DIN rail connector. The FM power terminal block offers the additional function of monitoring in combination with the fault monitoring module. Screw connection.

Product description

The MINI MCR-SL-PTB-FM(-SP) power terminal block is used to supply the supply voltage to the DIN rail connector.
Two separate voltage inputs enable redundant and diode-decoupled power supply up to a maximum current of 2 A. The FM power terminal block offers additional functions, monitoring in combination with the MINI MCR-SL-FM-RO fault monitoring module (Order No. 2902961, 2902962), flexible redundant supply of one or both module sides, and an extended supply voltage range of 0 ... 30 V DC.

Commercial data

Item number	2902958
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C403
Product key	DK113Z
GTIN	4046356702713
Weight per piece (including packing)	102.5 g
Weight per piece (excluding packing)	82.1 g
Customs tariff number	85369010
Country of origin	DE

Technical data

Notes

Utilization restriction

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

Product properties

Product type	Feed-in module
Product family	MINI Analog

Electrical properties

Maximum temperature coefficient	< 0.01 %/K

Input data

Input voltage range DC	0 V DC ... 30 V DC
Max. input current	2 A
Reverse polarity protection	yes

Output data

Output voltage range	19.2 V DC ... 29.2 V DC (Input voltage - 0.8 V)

Connection data

Input

Connection method	Screw connection
Conductor cross-section, rigid min.	0.2 mm²
Conductor cross-section, rigid max.	2.5 mm²
Conductor cross-section flexible min.	0.2 mm²
Conductor cross-section flexible max.	2.5 mm²
Conductor cross-section AWG min.	26
Conductor cross-section AWG max.	12
Stripping length	12 mm
Screw thread	M3

Signaling

Status display	Green LED (supply)
Error indication	Red LED

Dimensions

Width	6.2 mm
Height	93.1 mm
Depth	102.5 mm

Material specifications

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
Ambient temperature (operation)	-20 °C ... 65 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Maximum altitude	≤ 2000 m
Permissible humidity (operation)	5 % ... 95 % (non-condensing)

Approvals

CE

Certificate	CE-compliant

UL, USA/Canada

Identification	UL 508 Listed
	Class I, Div. 2, Groups A, B, C, D T4
	Class I, Zone 2, Group IIC

EMC data

Electromagnetic compatibility	Conformance with EMC directive
Noise immunity	EN 61000-6-2
Note	When being exposed to interference, there may be minimal deviations.

Noise emission

Standards/regulations	EN 61000-6-4

Electrostatic discharge

Standards/regulations	EN 61000-4-2

Electrostatic discharge

Comments	Safety measures must be taken to prevent electrostatic discharge.

Electromagnetic HF field

Designation	Electromagnetic RF field
Standards/regulations	EN 61000-4-3
Evaluation criterion	A

Fast transients (burst)

Designation	Fast transients (burst)
Standards/regulations	EN 61000-4-4
Evaluation criterion	B

Surge current load (surge)

Standards/regulations	EN 61000-4-5

Surge current load (surge)

Comments	Criterion B

Conducted interference

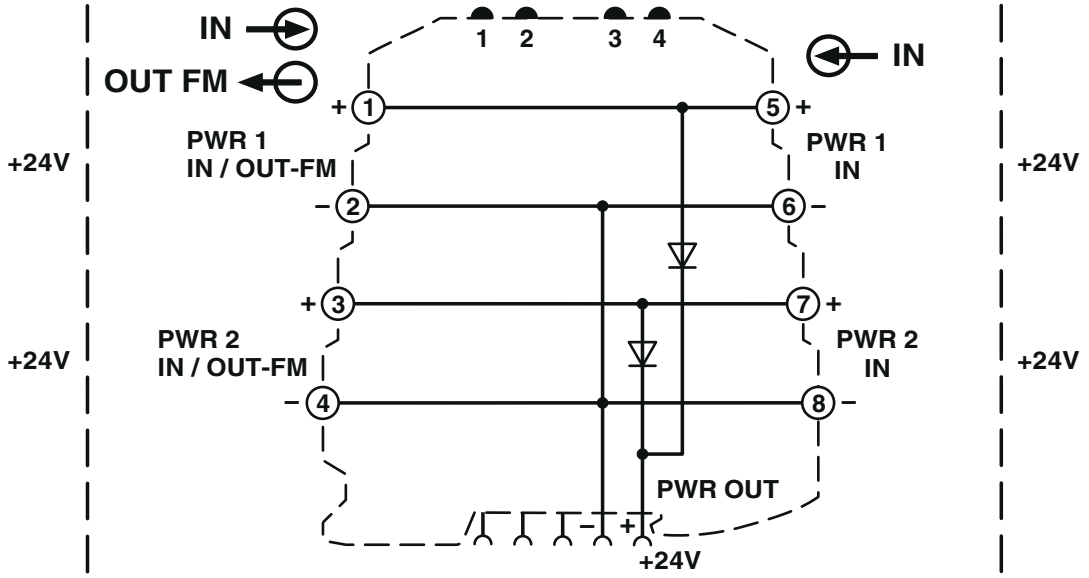
Designation	Conducted interferences
Standards/regulations	EN 61000-4-6
Evaluation criterion	A

Mounting

Mounting type	DIN rail mounting
Assembly note	The DIN rail connector can be used for bridging the supply voltage. It can be snapped onto a 35 mm EN 60715 DIN rail.
Mounting position	any

Drawings

Block diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2902958

UL Listed
Approval ID: E238705

cUL Listed
Approval ID: E238705

cUL Listed
Approval ID: E199827

UL Listed
Approval ID: FILE E 199827

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
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	51322df5-dd4f-452d-b0b5-d5d37efb1c24

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