MINI MCR-2-V8-PN - Communication module

2905637

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CRA-READY



Eight MINI Analog Pro signal conditioners and measuring transducers can be quickly and easily integrated into a PROFINET network via a communication adapter.

Product description

Thanks to its innovative plug-in concept, the communication adapter offers a time-saving wiring solution. Eight MINI Analog Pro signal converters can be quickly and easily integrated into a PROFINET network using a communication adapter. Flexible signal combinations and eliminating the need for I/O input cards saves space and money in the control cabinet.

Commercial data

Item number	2905637
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C404
Product key	DK112Z
GTIN	4046356996747
Weight per piece (including packing)	202.8 g
Weight per piece (excluding packing)	115.1 g
Customs tariff number	85176200
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.

Product properties

Product type	Communication module
Product family	MINI Analog Pro

Insulation characteristics: GB Standard

Overvoltage category	II
Pollution degree	2

Electrical properties

Rated insulation voltage	50 V_{rms}
Test voltage (Input/output/supply)	0.5 kV
Maximum temperature coefficient	0.01 %
Maximum transmission error	0.1 %

Supply

Nominal supply voltage range	12 V ... 24 V
Supply voltage range	9.6 V ... 30 V
Typical current consumption	160 mA (9.6 V DC)
Power consumption	< 1500 mW

Input data

Signal

Number of inputs	8
Configurable/programmable	Yes
Max. voltage input signal	5 V
Current input signal	4 mA ... 20 mA
Max. current input signal	24 mA
Available input sources	floating switch contact
	Current source
Input resistance current input	50 Ω

Output data

Protocols supported	PROFINET IRT
Note	CC-C
	MRP

	S2 redundancy
Number of outputs	2 (Daisy-chaining outbound via port 2 possible)
Configurable/programmable	Yes
Transmission speed	100 Mbps
Data update rate	15 ms

Connection data

Output

Connection method	RJ45
Number of positions	8

Ex data

Ex installation (EPL)	Gc
	Div. 2

Signaling

Status display	LED (green)
Error indication	Red LED

Dimensions

Width	51.1 mm
Height	104.1 mm
Depth	61 mm

Material specifications

Color	gray (RAL 7042)
Housing material	PBT 7 % GF V0

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 (Finger safety)
Ambient temperature (operation)	-40 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Altitude	≤ 4000 m
Permissible humidity (operation)	5 % ... 95 %
Permissible humidity (storage/transport)	5 % ... 95 %

Approvals

CE

Certificate	CE-compliant

ATEX

Identification	Ⓔx II 3 G Ex ec IIC T4 Gc
Certificate	BVS 21 ATEX E 064 X

IECEx

Identification	Ex ec IIC T4 Gc
Certificate	IECEx BVS 21.0071X

CCC / China-Ex

Identification	Ex ec IIC T4 Gc
Certificate	2022122308115724

UL, USA/Canada

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

EAC Ex

Identification	Ex ec IIC T4 Gc
Certificate	BY/112 02.01 TP012 103.01 00081

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

Standards and regulations

GB Standard

Standards/regulations	GB/T 3836.1
	GB/T 3836.3

Mounting

Mounting type	Plug-on assembly
Mounting position	any

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2905637

UL Listed
Approval ID: E238705

cUL Listed
Approval ID: E238705

PROFINET
Approval ID: Z12449

cUL Listed
Approval ID: E196811

UL Listed
Approval ID: E196811

CCC
Approval ID: 2022122308115724

IECEx
Approval ID: IECExBVS21.0071X

ATEX
Approval ID: BVS21ATEXE064X00en

Classifications

ECLASS

ECLASS-13.0	27242608
ECLASS-15.0	27242608

ETIM

ETIM 10.0	EC001604

UNSPSC

UNSPSC 21.0	32151600

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	cc8f6d9e-e506-4b38-ab94-6e564fdaa213

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