MINI MCR-2-V8-MOD-TCP - Communication module

2905635

https://www.phoenixcontact.com/pc/products/2905635

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Eight MINI Analog Pro signal conditioners and measuring transducers are quickly and easily integrated into a Modbus/TCP 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 Modbus/TCP 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	2905635
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DK112Z
GTIN	4046356996716
Weight per piece (including packing)	201.5 g
Weight per piece (excluding packing)	201.5 g
Customs tariff number	85176200
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	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	130 mA (9.6 V DC)
Power consumption	< 1200 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	Modbus/TCP
Number of outputs	1
Configurable/programmable	Yes
Transmission speed	10 Mbps
	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

UKCA Ex (UKEX)

Identification	Ⓔx II 3 G Ex ec IIC T4 Gc
Certificate	PxCIF21UKEX2905634X

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 T5
	Class I, Zone 2, Group IIC T5

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

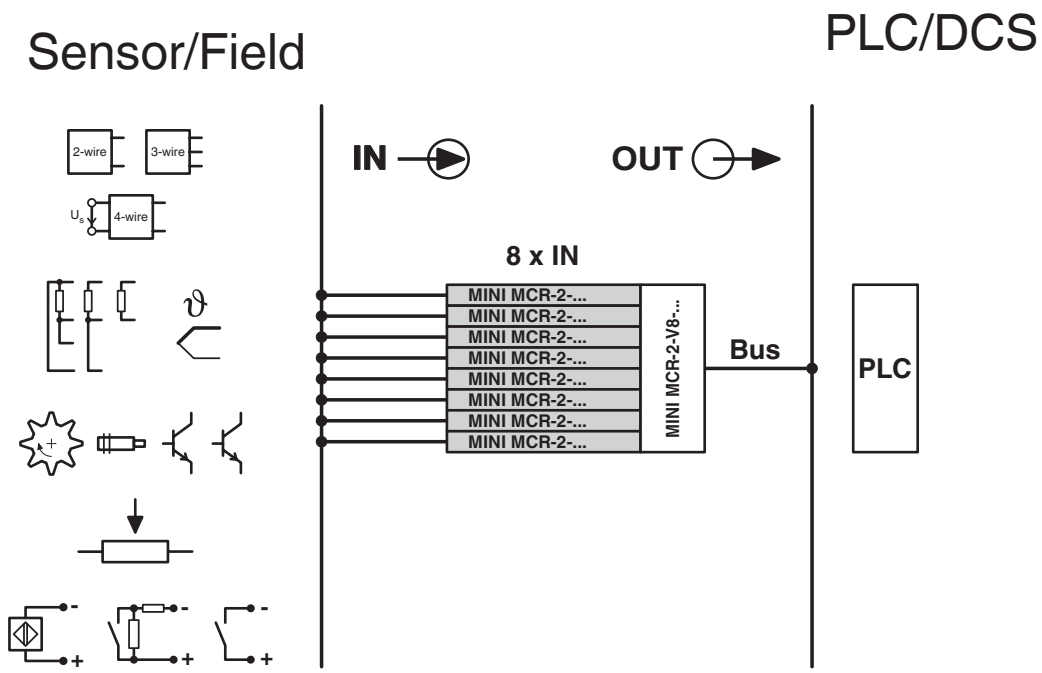
Standards/regulations	GB/T 3836.1
	GB/T 3836.3

Mounting

Mounting type	Plug-on assembly
Mounting position	any

Drawings

Block diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/2905635

EAC
Approval ID: RU*DE.*08.B.01518/19

UL Listed
Approval ID: E238705

cUL Listed
Approval ID: E238705

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	2cd631cb-a59d-4e28-a8fd-128f61162d70

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