

# MINI MCR-2-V8-PN - Communication module



2905637

<https://www.phoenixcontact.com/us/products/2905637>

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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

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## Technical data

### 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 <sub>rms</sub>
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

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## 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
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### ATEX

Identification	⊕ 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

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## 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
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## Standards and regulations

### GB Standard

Standards/regulations	GB/T 3836.1
	GB/T 3836.3

## Mounting

Mounting type	Plug-on assembly
Mounting position	any

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## Approvals

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 **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

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## Classifications

### ECLASS

ECLASS-13.0	27242608
ECLASS-15.0	27242608

### ETIM

ETIM 10.0	EC001604
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### UNSPSC

UNSPSC 21.0	32151600
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## 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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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)