# MINI MCR-2-V8-PB-DP - Communication module

2905636

https://www.phoenixcontact.com/pc/products/2905636

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CRA-READY



Eight MINI Analog Pro signal conditioners and measuring transducers are quickly and easily integrated into a PROFIBUS DP 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 PROFIBUS DP 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 | 2905636 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Product key | DK112Z |
| GTIN | 4046356996723 |
| Weight per piece (including packing) | 199.5 g |
| Weight per piece (excluding packing) | 136 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. |

### 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 | 160 mA (9.6 V DC) |
| Power consumption | < 700 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 | PROFIBUS DP |
| Number of outputs | 1 |
| Configurable/programmable | Yes |
| Transmission speed | 12 Mbps |
| Data update rate | 15 ms |

## Connection data

Output

| | |
|---|---|
| Connection method | D-SUB socket strip |
| Number of positions | 9 |

## 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 | 56.8 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 ... 60 °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 | 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 |

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/2905636

**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 | 6(c), 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 | f7d2bfdd-79b8-4b89-9792-fb1b96c473db |


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