# MINI MCR-2-V8-FLK 16 - System adapter

2901993

https://www.phoenixcontact.com/us/products/2901993

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CRA-READY



Eight MINI Analog Pro signal conditioners and measuring transducers can be connected to a controller with minimal cabling effort and without any errors using system adapters and system cabling.

## Product description

Thanks to its innovative plug-in concept, the system adapter offers a time-saving wiring solution. Eight MINI Analog Pro-signal converters are easily connected to a control unit using pluggable system cabling. This leads to a considerable reduction in cabling effort and the risk of wiring errors, compared to PLC-side single-conductor wiring.

## Commercial data

| | |
|---|---|
| Item number | 2901993 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | C404 |
| Product key | DK112Z |
| GTIN | 4046356651813 |
| Weight per piece (including packing) | 142 g |
| Weight per piece (excluding packing) | 132.6 g |
| Customs tariff number | 85389099 |
| Country of origin | DE |

# Technical data

## Product properties

| | |
|---|---|
| Product type | Interface 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) | 0.5 kV |

## Input data

Signal

| | |
|---|---|
| Number of inputs | 8 |
| Configurable/programmable | no |
| Max. voltage input signal | 30 V |
| Max. current input signal | 4 A (500 mA per ch.) |

## Output data

| | |
|---|---|
| Number of outputs | 8 |
| Configurable/programmable | no |

## Connection data

Output

| | |
|---|---|
| Connection method | IDC/FLK pin strip |
| Number of positions | 16 |
| Pitch | 2.54 mm |

## Ex data

| | |
|---|---|
| Ex installation (EPL) | Gc |
| | Div. 2 |

## 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 ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Permissible humidity (operation) | 5 % ... 95 % |
| Permissible humidity (storage/transport) | 5 % ... 95 % |

Altitude range (≤ 2000 m)

| | |
|---|---|
| Altitude | ≤ 2000 m |
| Ambient temperature (operation) | -40 °C ... 70 °C |
| Rated insulation voltage | 50 V AC/DC |

Altitude range (≤ 3000 m)

| | |
|---|---|
| Height range | > 2000 m ... 3000 m |
| Ambient temperature (operation) | -40 °C ... 63 °C |
| Rated insulation voltage | 40 V AC/DC |

Altitude range (≤ 4000 m)

| | |
|---|---|
| Height range | > 3000 m ... 4000 m |
| Ambient temperature (operation) | -40 °C ... 56 °C |
| Rated insulation voltage | 30 V AC/DC |

Altitude range (≤ 5000 m)

| | |
|---|---|
| Height range | > 4000 m ... 5000 m |
| Ambient temperature (operation) | -40 °C ... 49 °C |
| Rated insulation voltage | 30 V AC/DC |

## Approvals

CE

| | |
|---|---|
| Certificate | CE-compliant |

ATEX

| | |
|---|---|
| Identification | Ⓔx II 3 G Ex ec IIC Gc |
| Certificate | PxCIF16ATEX2901993U |

UKCA Ex (UKEX)

| | |
|---|---|
| Identification | Ⓔx II 3 G Ex ec IIC Gc |
| Certificate | PxCIF22UKEX2901993U |

IECEx

| | |
|---|---|
| Identification | Ex ec IIC Gc |
| Certificate | IECEx BVS 22.0005U |

CCC / China-Ex

| | |
|---|---|
| Identification | Ex ec IIC Gc |

| | |
|---|---|
| Certificate | 2022122308115723 |

UL, USA/Canada

| | |
|---|---|
| Identification | UL 61010 Listed |
| | Class I, Div. 2, Groups A, B, C, D T5 |
| | Class I, Zone 2, Group IIC T5 |

EAC Ex

| | |
|---|---|
| Identification | Ex nA IIC T4 Gc U |
| Certificate | BY/112 02.01 TP012 103.01 00081 |

## Standards and regulations

GB Standard

| | |
|---|---|
| Standards/regulations | GB 3836.1 |
| | GB 3836.3 |

## Mounting

| | |
|---|---|
| Mounting position | any |

## Notes

Note on application

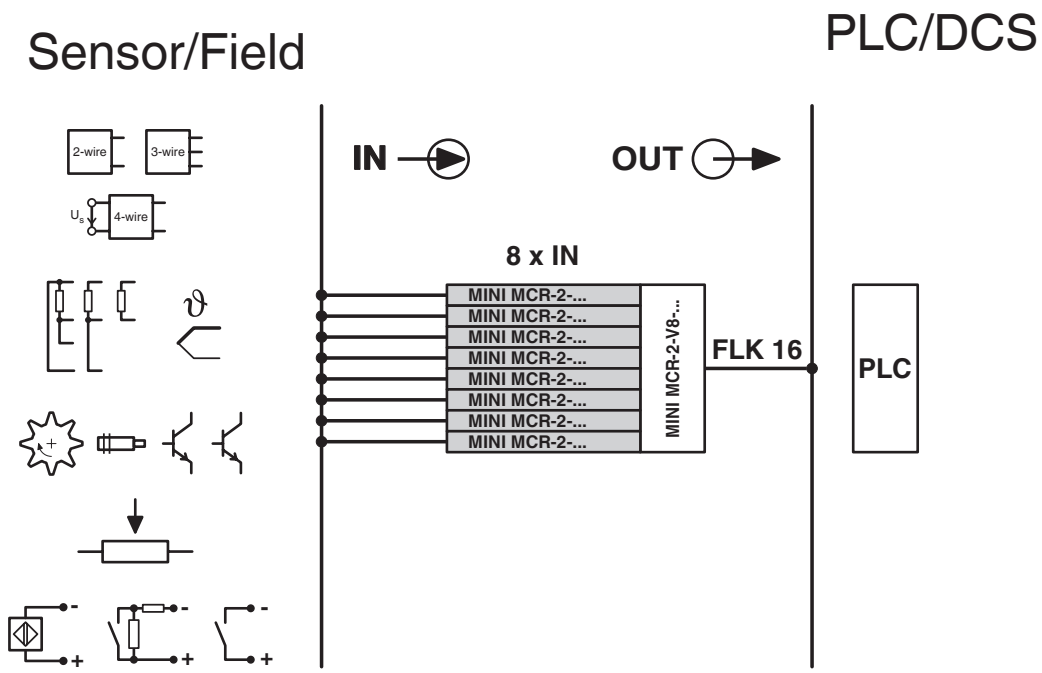
| | |
|---|---|
| Note on application | As things stand now, we are preparing the product so that, as of December 11, 2027, it will comply with the requirements of the EU Cyber Resilience Act (CRA) based on the information currently available regarding the CRA. |

Utilization restriction

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

## Drawings

Block diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2901993

**UL Listed**
Approval ID: E238705

**cUL Listed**
Approval ID: E238705

**CCC**
Approval ID: 2022122308115723

**cUL Listed**
Approval ID: E196811

**UL Listed**
Approval ID: E196811

**IECEx**
Approval ID: IECEx BVS 22.0005U

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27141152 |
| ECLASS-15.0 | 27141152 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC002780 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121400 |

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |

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