

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

2901993

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

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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

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## 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 <sub>rms</sub>
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

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## 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
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### ATEX

Identification	⊕ II 3 G Ex ec IIC Gc
Certificate	PxCIF16ATEX2901993U

### UKCA Ex (UKEX)

Identification	⊕ 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
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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
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## Notes

### Utilization restriction

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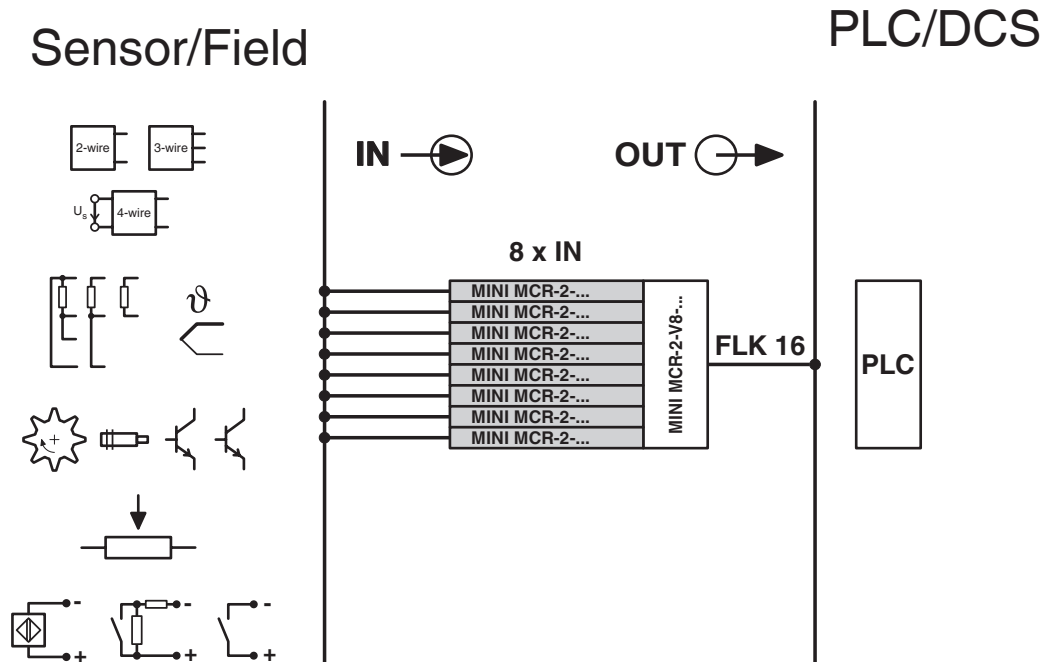
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## Drawings

Block diagram



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## 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

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## Classifications

### ECLASS

ECLASS-13.0	27141152
ECLASS-15.0	27141152

### ETIM

ETIM 10.0	EC002780
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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