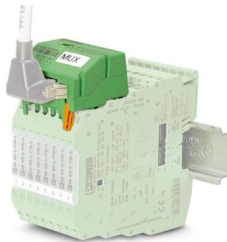


# MINI MCR-SL-MUX-V8-FLK 16 - Multiplexer

2811815

<https://www.phoenixcontact.com/us/products/2811815>

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MINI analog multiplexer, generates one analog output from 8 analog input signals, for MINI analog module with screw connection.

## Product description

The multiplexer makes it possible to create one analog output from 8 analog input signals. When running in 1 or 2 second cycles, with the multiplexer, 8, 6, 4, or 2 parallel analog signals can be transmitted serially, therefore successively. Suitable for MINI Analog modules with screw connection method.

## Your advantages

- System cabling on the output side using preassembled FLK cables with open ends
- Huge reduction in analog inputs at controllers
- Can be easily snapped onto MINI Analog modules with screw connection technology
- For 4 mA ... 20 mA current signals
- Generates an analog output from up to eight analog input signals – parallel analog signals are transmitted serially via a cable
- The desired number of channels is selected via DIP switches (8, 6, 4 or 2 channels)
- The channel currently switched is indicated as a bit pattern via three digital outputs
- Two clock cycles for execution can be selected via DIP switches (one or two-second clock)
- Supplied by an output loop

## Commercial data

Item number	2811815
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C403
Product key	DK113Z
GTIN	4046356554091
Weight per piece (including packing)	107.2 g
Weight per piece (excluding packing)	50 g
Customs tariff number	85389091
Country of origin	DE

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## Technical data

### Product properties

Product type	Multiplexer
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### Electrical properties

Maximum temperature coefficient	< 0.01 %/K
Contact resistance	< 10 mΩ
Maximum transmission error	0.3 % (0.1%, typical)

### Supply

Designation	Loop-powered
Supply voltage range	7 V DC ... 30 V DC (Loop-powered)
Max. current consumption	< 3.5 mA (without signal current)
Power consumption	< 24 mW (without signal current)

### Input data

#### Signal

Description of the input	2, 4, 6, or 8-channel(can be switched over)
Configurable/programmable	Via DIP switches
Current input signal	4 mA ... 20 mA
Max. current input signal	< 30 mA
Switching cycles	2 or 1 sec. (can be selected)

### Output data

#### Switching: Transistor

Maximum switching voltage	30 V DC
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#### Signal

Current output signal	4 mA ... 20 mA
Max. current output signal	< 30 mA
Load/output load current output	$(U_{\text{supply}} - 7 \text{ V}) / I_{\text{max}}$
Status display	1, 2, 3-bit digital output (can be selected)

### Connection data

#### Controller level

Connection in acc. with standard	IEC 60603-13
Connection method	IDC/FLK pin strip
Number of connections	1
Number of positions	16
Insertion/withdrawal cycles	≥ 200
Pitch	2.54 mm
Connection method	Spring contact

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Number of positions	16
Insertion/withdrawal cycles	10

## Dimensions

Width	50.4 mm
Height	45.5 mm
Depth	46.2 mm

## Material specifications

Color	green (RAL 6021)
Flammability rating according to UL 94	V0
Housing material	PBT

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 65 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C

## Approvals

### CE

Certificate	CE-compliant
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### ATEX

Identification	⊕ II 3 G Ex nA IIC T4 Gc X
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### UL, USA/Canada

Identification	UL 508 Recognized pending Class I, Div. 2, Groups A, B, C, D T5 pending
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## 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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### Electrostatic discharge

Comments	Safety measures must be taken to prevent electrostatic discharge.
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## Standards and regulations

Vibration resistance	≤ 0,7g
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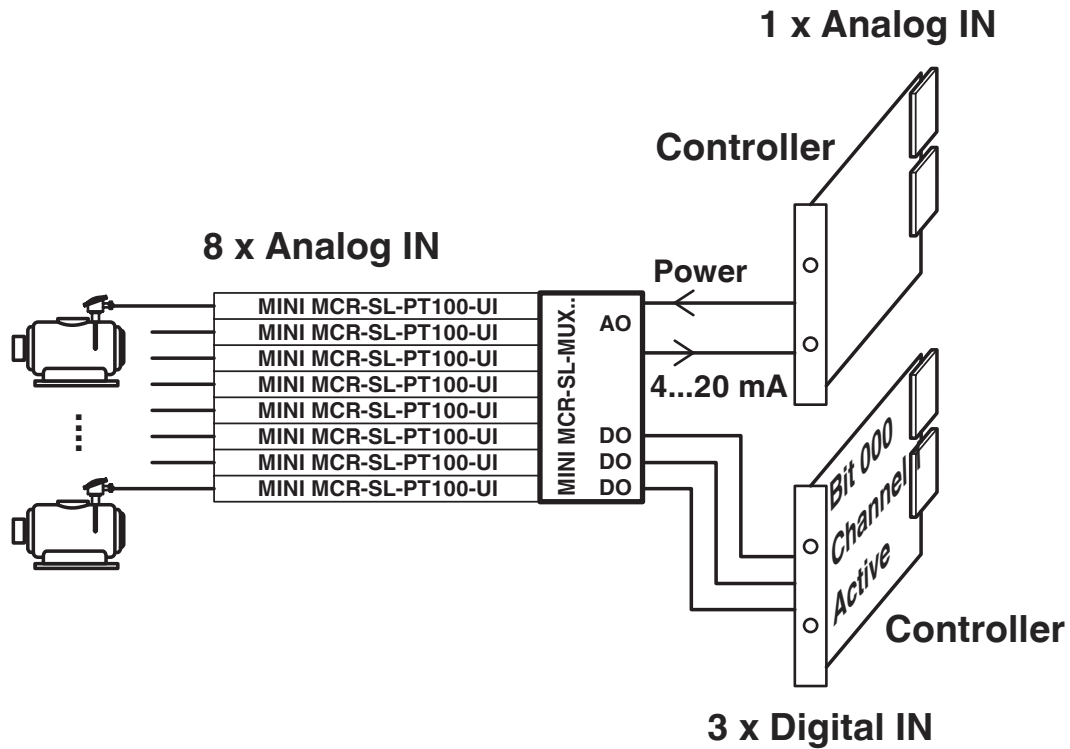


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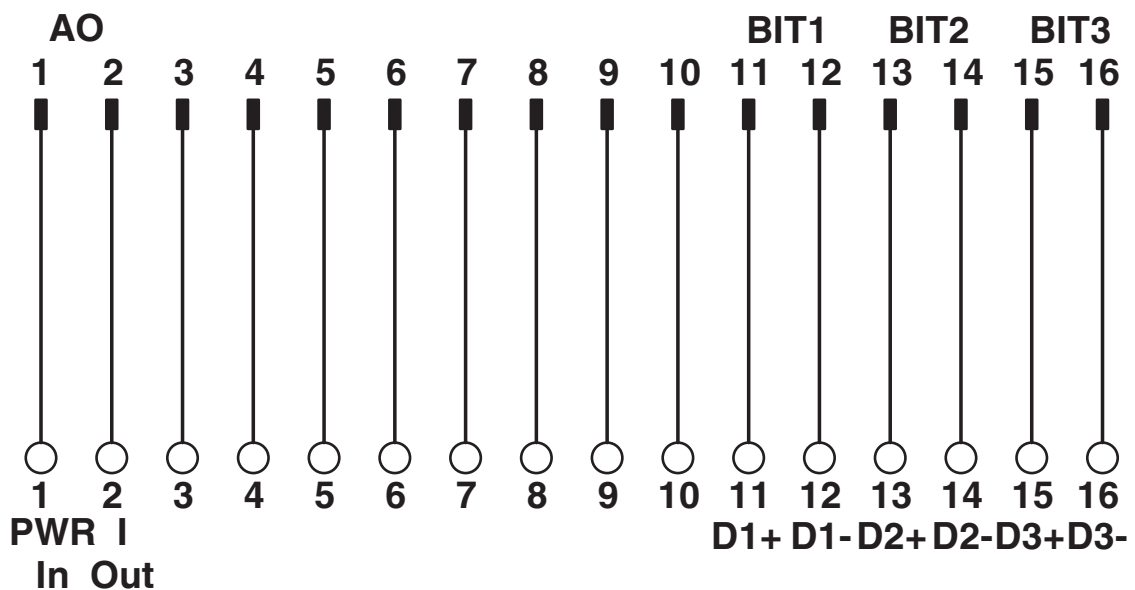
## Drawings

Application drawing



Monitoring of eight motor temperatures with just one analog control input

Circuit diagram



FLK pin strip assignment

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## Environmental product compliance

### 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.)	No substance above 0.1 wt%
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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)