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

2811815

https://www.phoenixcontact.com/us/products/2811815
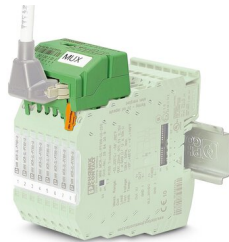
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MINI analog multiplexer, generates one analog output from 8 analog input signals, for MINI analog module with screw connection.

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 pre-assembled 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
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	C01
Product Key	CK12ZZ
Catalog Page	Page 123 (C-7-2015)
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

Technical Data

Product properties

Product type	Multiplexer

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

Signal:

Current output signal	4 mA ... 20 mA
Max. current output signal	< 30 mA
Load/output load current output	$(U_{supply} - 7\ V) / I_{max}$
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

Number of positions	16
Insertion/withdrawal cycles	10

Dimensions

Width	50.4 mm
Height	45.5 mm
Depth	46.2 mm

Material specifications

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

Approval data

CE

Certificate	CE-compliant

ATEX

Identification	□ II 3 G Ex nA IIC T4 Gc X

UL, USA / Canada

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

EMC data

Electromagnetic compatibility	Conformance with EMC directive
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2
Note	When being exposed to interference, there may be minimal deviations.

Electrostatic discharge

Comments	Safety measures must be taken to prevent electrostatic discharge.

Standards and regulations

Vibration resistance	≤ 0,7g

Drawings

Circuit diagram

AO

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | **BIT1** 11 | 12 | **BIT2** 13 | 14 | **BIT3** 15 | 16 |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

PWR I

In Out

D1+ D1- D2+ D2- D3+ D3-

Application drawing

1 x Analog IN

Controller

8 x Analog IN

MINI MCR-SL-PT100-UI
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MINI MCR-SL-PT100-UI

MINI MCR-SL-MUX..

AO

Power

4...20 mA

DO
DO
DO

Bit 000
Channel
Active

Controller

3 x Digital IN
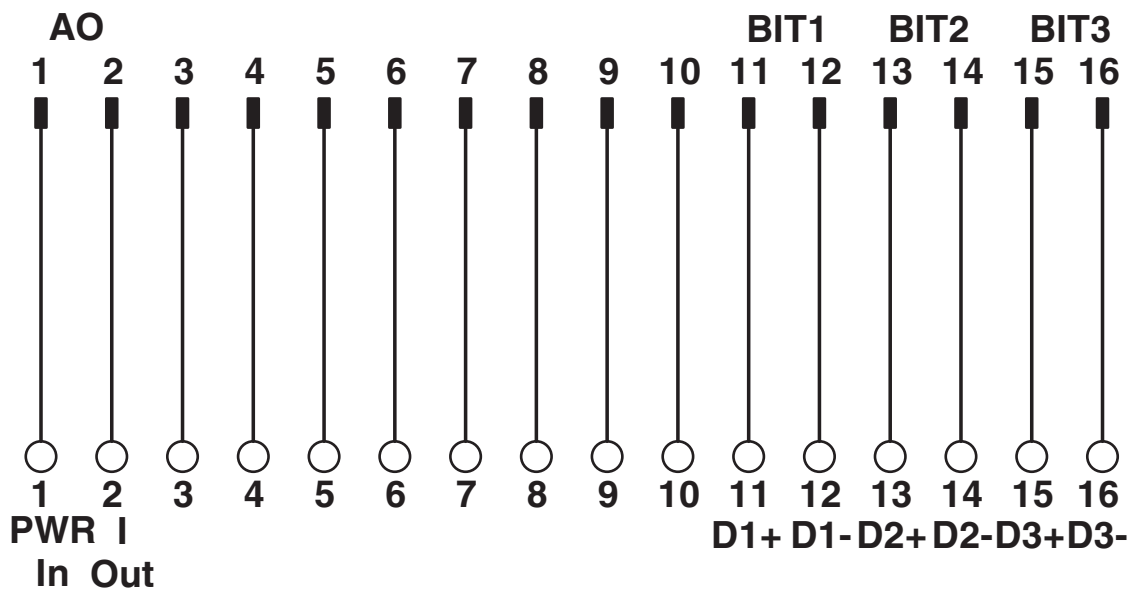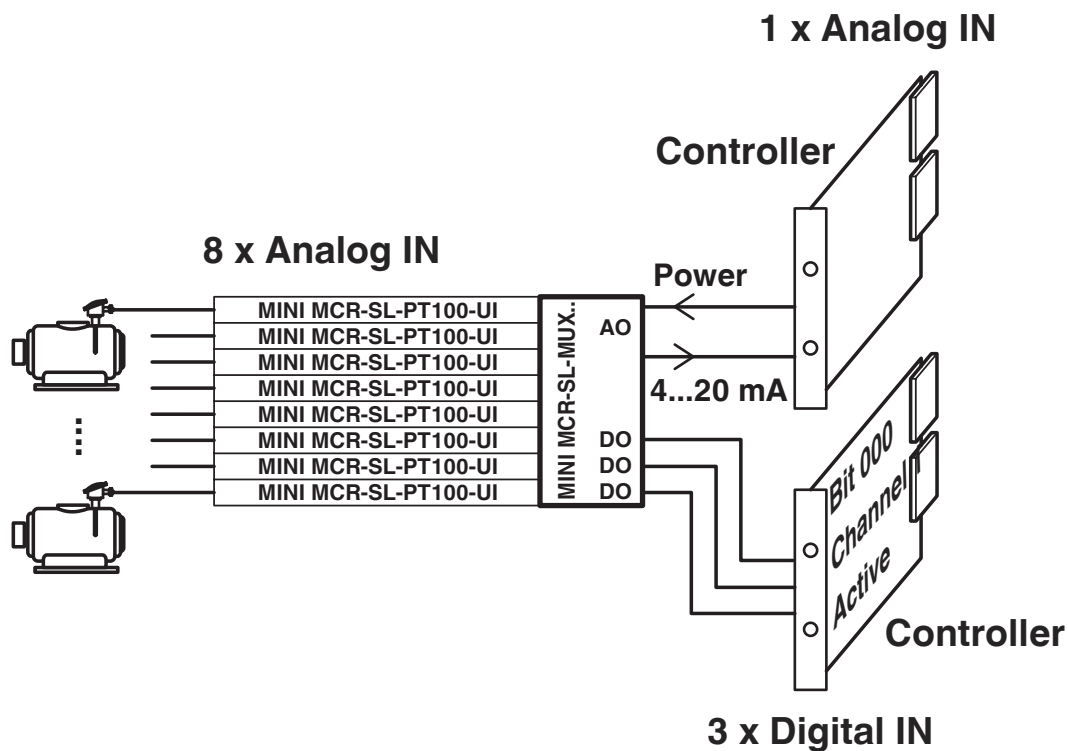
Monitoring of eight motor temperatures with just one analog control input

Classifications

ECLASS

ECLASS-9.0	27242601

ETIM

ETIM 7.0	EC000768

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

Accessories

Feed-through terminal block

Feed-through terminal block - MINI MCR-SL-TB - 2811420

https://www.phoenixcontact.com/us/products/2811420

Feed-through terminal block for transmission of signals that are already electrically isolated

Cable

Cable - CABLE-FLK16/OE/0,14/ 0,5M - 2318127

https://www.phoenixcontact.com/us/products/2318127

Round cable set; connection 1: Single wires (16-position) (The wires are marked and fitted with ferrules); connection 2: IDC/FLK socket strip (1x 16-position); cable length: 0.5 m

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Cable

Cable - CABLE-FLK16/OE/0,14/ 1,0M - 2318130

https://www.phoenixcontact.com/us/products/2318130

Round cable set; connection 1: Single wires (16-position) (The wires are marked and fitted with ferrules); connection 2: IDC/FLK socket strip (1x 16-position); cable length: 1 m

Cable

Cable - CABLE-FLK16/OE/0,14/ 1,5M - 2318143

https://www.phoenixcontact.com/us/products/2318143

Round cable set; connection 1: Single wires (16-position) (The wires are marked and fitted with ferrules); connection 2: IDC/FLK socket strip (1x 16-position); cable length: 1.5 m

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Cable

Cable - CABLE-FLK16/OE/0,14/ 2,0M - 2318156

https://www.phoenixcontact.com/us/products/2318156

Round cable set; connection 1: Single wires (16-position) (The wires are marked and fitted with ferrules); connection 2: IDC/FLK socket strip (1x 16-position); cable length: 2 m

Cable

Cable - CABLE-FLK16/OE/0,14/ 3,0M - 2318172

https://www.phoenixcontact.com/us/products/2318172

Round cable set; connection 1: Single wires (16-position) (The wires are marked and fitted with ferrules); connection 2: IDC/FLK socket strip (1x 16-position); cable length: 3 m

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Cable

Cable - CABLE-FLK16/OE/0,14/ 4,0M - 2318185

https://www.phoenixcontact.com/us/products/2318185

Round cable set; connection 1: Single wires (16-position) (The wires are marked and fitted with ferrules); connection 2: IDC/FLK socket strip (1x 16-position); cable length: 4 m

Cable

Cable - CABLE-FLK16/OE/0,14/ 6,0M - 2318198

https://www.phoenixcontact.com/us/products/2318198

Round cable set; connection 1: Single wires (16-position) (The wires are marked and fitted with ferrules); connection 2: IDC/FLK socket strip (1x 16-position); cable length: 6 m

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Cable

Cable - CABLE-FLK16/OE/0,14/ 8,0M - 2318208

https://www.phoenixcontact.com/us/products/2318208

Round cable set; connection 1: Single wires (16-position) (The wires are marked and fitted with ferrules); connection 2: IDC/FLK socket strip (1x 16-position); cable length: 8 m

Cable

Cable - CABLE-FLK16/OE/0,14/10,0M - 2318211

https://www.phoenixcontact.com/us/products/2318211

Round cable set; connection 1: Single wires (16-position) (The wires are marked and fitted with ferrules); connection 2: IDC/FLK socket strip (1x 16-position); cable length: 10 m

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Cable

Cable - CABLE-FLK16/OE/0,14/... - 2318224

https://www.phoenixcontact.com/us/products/2318224

Round cable set; connection 1: Single wires (16-position) (The wires are marked and fitted with ferrules); connection 2: IDC/FLK socket strip (1x 16-position); cable length: variable

Cable

Cable - CABLE-FLK16-OE-S/... - 2906637

https://www.phoenixcontact.com/us/products/2906637

Round cable set; connection 1: Single wires (16-position) (The wires are marked and fitted with ferrules); connection 2: IDC/FLK socket strip (1x 16-position); cable length: variable