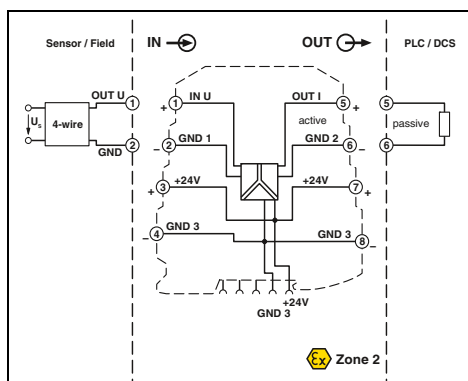
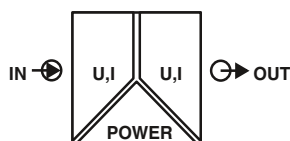


Analog IN/Analog OUT 3-way signal conditioner



With fixed signal combinations



- Highly compact signal conditioner for electrical isolation, conversion, amplification, and filtering of standard analog signals
- Fixed signal combinations
- Entry-level alternative to configurable signal conditioners
- 3-way isolation
- Low power consumption
- Power supply possible through the foot element (DIN rail connector)

Notes:

Information about power bridging, system cabling, and marking components can be found from page 116

Input data

Input resistance

Output data

Maximum output signal

No-load voltage

Short-circuit current

Load R_B

Ripple

General data

Supply voltage U_B

Nominal supply voltage

Current consumption

Maximum transmission error

Temperature coefficient

Cut-off frequency (3 dB)

Step response (10-90%)

Degree of protection

Electrical isolation

Test voltage, input/output/supply

Ambient temperature (operation)

Housing material

Dimensions W / H / D

Screw connection solid / stranded / AWG

Spring-cage connection solid / stranded / AWG

EMC note

Conformance / approvals

Conformance

ATEX

UL, USA / Canada

GL

Technical data

U input

approx. 100 k Ω

U output

12.5 V

approx. 2 mA

≥ 10 k Ω

< 20 mV_{PP} (at 10 k Ω)

I input

approx. 50 Ω

I output

28 mA

approx. 12.5 V

≤ 500 Ω

< 20 mV_{PP} (at 500 Ω)

19.2 V DC ... 30 V DC

24 V DC

< 20 mA

≤ 0.1 % (of final value)

< 0.01 %/K, typ. < 0.002 %/K

approx. 100 Hz

approx. 3.5 ms

IP20

Basic insulation according to EN 61010

1.5 kV (50 Hz, 1 min.)

-20 °C ... 65 °C

PBT

6.2 / 93.1 / 102.5 mm

0.2 ... 2.5 mm² / 0.2 ... 2.5 mm² / 26 - 12

0.2 ... 2.5 mm² / 0.2 ... 2.5 mm² / 24 - 12

Class A product, see page 625

CE-compliant

Ex II 3 G Ex nA IIC T4 Gc X

UL 508 Recognized

Class I, Div. 2, Groups A, B, C, D T5 applied for

GL EMC 2 D

Ordering data

Description	Input signal	Output signal	Type	Order No.	Pcs. / Pkt.
MCR 3-way signal conditioner , for electrical isolation of analog signals					
Screw connection	0 ... 10 V	0 ... 20 mA	MINI MCR-SL-U-I-0	2813512	1
Spring-cage connection	0 ... 10 V	0 ... 20 mA	MINI MCR-SL-U-I-0-SP	2813570	1
Screw connection	0 ... 10 V	4 ... 20 mA	MINI MCR-SL-U-I-4	2813525	1
Spring-cage connection	0 ... 10 V	4 ... 20 mA	MINI MCR-SL-U-I-4-SP	2813583	1
Screw connection	0 ... 20 mA	0 ... 10 V	MINI MCR-SL-I-U-0	2813541	1
Spring-cage connection	0 ... 20 mA	0 ... 10 V	MINI MCR-SL-I-U-0-SP	2813554	1
Screw connection	4 ... 20 mA	0 ... 10 V	MINI MCR-SL-I-U-4	2813538	1
Spring-cage connection	4 ... 20 mA	0 ... 10 V	MINI MCR-SL-I-U-4-SP	2813567	1
Screw connection	0 ... 20 mA, 4 ... 20 mA	0 ... 20 mA, 4 ... 20 mA	MINI MCR-SL-I-I	2864406	1
Spring-cage connection	0 ... 20 mA, 4 ... 20 mA	0 ... 20 mA, 4 ... 20 mA	MINI MCR-SL-I-I-SP	2864723	1
Screw connection	0 ... 10 V, -10 ... 10 V	0 ... 10 V, -10 ... 10 V	MINI MCR-SL-U-U	2864684	1
Spring-cage connection	0 ... 10 V, -10 ... 10 V	0 ... 10 V, -10 ... 10 V	MINI MCR-SL-U-U-SP	2864697	1