

INTERFACE Analog

MINI Analog

Configurable signal duplicator

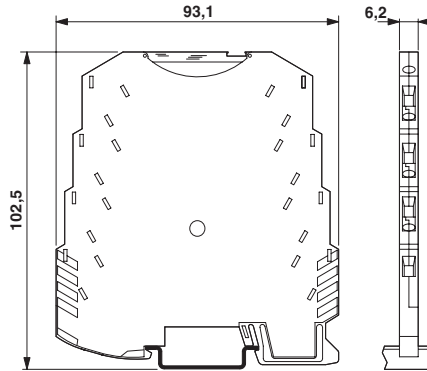
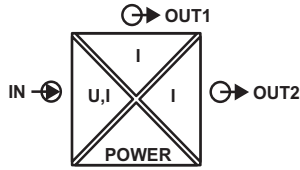
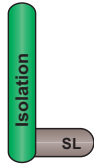


Ex n



MINI MCR-SL-UI-2I

Configurable signal duplicator



- Configurable input and output signals
- 4-way isolation
- Two current output signals
- Power supply possible through the foot element (T-Connector)

The **MINI MCR-SL-UI-2I** 4-way signal duplicators are used for electrical isolation, duplicating and filtering of analog standard signals.

The devices are electrically isolated from each other in the input, output and supply circuit. 4-way isolation prevents different sensor circuits interfering with each other and thereby improves the quality of your measuring circuit.

The input signal can be switched over between the current and voltage signal via a DIP switch and the two current output signals can be switched independently between 0...20 mA and 4...20 mA.

The desired configuration must be specified when ordering pre-configured modules (refer to the order key). If specifications are incorrect or missing, the devices will be supplied with the standard configuration.

Accessories:

Information about components for energy bridging, system cabling and marking is given from page 347.

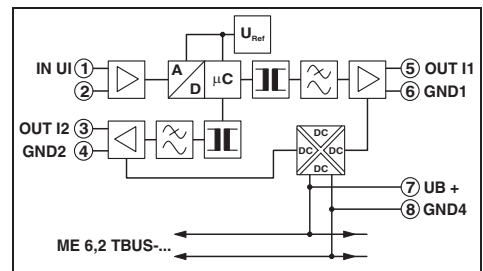
	solid	stranded		
	[mm ²]	[mm ²]	AWG	Screw
Screw connection	0.14-2.5	0.2-2.5	26-12	M3
Spring-cage conn.	0.2-2.5	0.2-2.5	24-12	

Description	
MCR signal duplicator , for duplicating and electrical isolation of analog signals	
Order configuration	Screw connection
Order configuration	Spring-cage conn.
Standard configuration	Screw connection
Standard configuration	Spring-cage conn.

Technical data

Input data	
Input signal	
Maximum input signal	
Input resistance	
Output data	
Output signal (configurable using the DIP switch)	
Maximum output signal	
No-load voltage	
Load R_B	
Ripple	
General data	
Supply voltage U_B	
Current consumption	
Power consumption	
Transmission error, max.	
Temperature coefficient	
Limit frequency (3 dB)	
Step response (10-90%)	
Test voltage, input/output/supply	
Ambient temperature (operation)	
Housing material	
Conformance / approvals	
Conformity	
ATEX	
UL, USA / Canada	
GL	

Housing width 6.2



Type	Order No.	Pcs. / Pkt.
MINI MCR-SL-UI-2I	2864794	1
MINI MCR-SL-UI-2I-SP	2864804	1
MINI MCR-SL-UI-2I-NC	2864176	1
MINI MCR-SL-UI-2I-SP-NC	2864189	1

U input	I input
0 ... 10 V / 1 ... 5 V	0 ... 20 mA / 4 ... 20 mA
30 V	50 mA
Approx. 100 kΩ	Approx. 50 Ω
2x ; 0 ... 20 mA / 4 ... 20 mA	
24 mA	
9 V	
≤ 250 Ω (at 20 mA)	
< 20 mV _{pp} (at 250 Ω)	
19.2 V DC ... 30 V DC	
< 25 mA (at 24 V DC incl. load)	
< 600 mW	
≤ 0.2% (of end value), Typ. < 0.1%	
< 0.01%/K, Typ. < 0.004%/K	
Approx. 35 Hz	
Approx. 10 ms	
1.5 kV (50 Hz, 1 min.)	
-20°C ... 60°C	
PBT	
CE compliant	
Ex II 3 G Ex nA II T4 X	
UL 508 Recognized	
Class I, Div. 2, Groups A, B, C, D T5	
GL EMC 2 D	

Order key **MINI MCR-SL-UI-2I** (Standard configuration entered as example)

Order No.	Input	Output combination ¹⁾	Behavior of the analog outputs	Factory calibration certificate
2864794	IN03	A	0	NONE
2864794 ≙ ...-UI-2I	IN01 ≙ 0...20 mA IN02 ≙ 4...20 mA IN03 ≙ 0...10 V IN06 ≙ 1...5 V	A B C	0 ≙ Analog behavior 1 ≙ Limit	NONE ≙ Without certificate YES ≙ With factory calibration certificate (fee) YESPLUS ≙ Factory calibration certificate with 5 measuring points (fee)
2864804 ≙ ...-UI-2I-SP				

Explanation of the output combination:

	Output 1	Output 2
A	0...20 mA	0...20 mA
B	0...20 mA	4...20 mA
C	4...20 mA	4...20 mA

¹⁾ For explanations see adjacent text on the right, for further details see data sheet: www.phoenixcontact.com