MINI MCR-2-UI-UI - Signal conditioner



2902037

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3-way signal conditioner with plug-in connection technology and calibrated measuring range changeover for the electrical isolation of unipolar and bipolar analog signals. Input/output configurable via DIP switch. Screw connection technology, standard configuration.

Product Description

The 3-way signal conditioner with plug-in connection technology and calibrated measuring range changeover can be configured using DIP switches and is used for the electrical isolation, conversion, amplification, and filtering of unipolar and bipolar standard and normalized signals. On the input side, the standard analog signals 0 ... 20 mA, 4 ... 20 mA, 0 ... 10 V, 0 ... 5 V, 1 ... 5 V or -10 ... 10 V, and signals 2 ... 10 V, 0 ... 20 V, 4 ... 20 V, 0 ... 24 V, 0 ... 30 V, -5 ... 5 V, -20 ... 20 V, -24 ... 24 V, -30 ... 30 V and -20 ... 20 mA are available. On the output side, 0 ... 20 mA, 4 ... 20 mA, 0 ... 10 V, 0 ... 5 V, 1 ... 5 V, -10 ... 10 V and -5 ... 5 V are possible. There is no need for adjustment following a measuring range changeover. The measuring transducer supports fault monitoring and NFC communication.

Commercial Data

Item number	2902037
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	CK1
Product Key	CK1411
Catalog Page	Page 72 (C-5-2019)
GTIN	4046356649728
Weight per Piece (including packing)	124.1 g
Weight per Piece (excluding packing)	103.9 g
Customs tariff number	85437090
Country of origin	DE

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Technical Data

Notes

EMC note	EMC: class A product, see manufacturer's declaration in the
	download area
uct properties	
Product type	Signal conditioner
Product family	MINI Analog Pro
No. of channels	1
Туре	Signal conditioner
Configuration	DIP switches
ulation characteristics: GB Standard	
Overvoltage category	II II
Pollution degree	2
trical properties	
No. of channels	1
Electrical isolation	3-way isolation
Electrical isolation between input and output	yes
Limit frequency (3 dB)	30 Hz (via DIP switch)
	5 kHz (via DIP switch)
Protective circuit	Transient protection
Step response (10-90%)	< 12 ms (with 30 Hz filter)
Maximum temperature coefficient	0.01 %/K
Temperature coefficient, typical	0.01 %/K
Maximum transmission error	≤ 0.1 % (of final value)
	≤ 0.15 % (of final value, at IN: 4 mA 20 mA / OUT: -10 V 10 V)
ectrical isolation Input/output/power supply	
Rated insulation voltage	300 V _{rms}
Test voltage	3 kV AC (50 Hz, 60 s)
Insulation	Reinforced insulation according to IEC/EN 61010-1
pply	
Nominal supply voltage	24 V DC
Supply voltage range	9.6 V DC 30 V DC (The DIN rail connector (ME 6,2 TBUS-1,5/5-ST-3,81 GN, item no. 2869728) can be used to bridge supply voltage. It can be snapped onto a 35 mm DIN rail in accordance with EN 60715)
Typical current consumption	25 mA (Current output, at 24 V DC incl. load)
	54 mA (Current output, at 12 V DC incl. load)

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Input data

Signal: Voltage/current

Number of inputs	1
Configurable/programmable	Yes
Voltage input signal	0 V 5 V (via DIP switch)
	1 V 5 V (via DIP switch)
	-5 V 5 V (via DIP switch)
	0 V 10 V (via DIP switch)
	2 V 10 V (via DIP switch)
	-10 V 10 V (via DIP switch)
	0 V 20 V (via DIP switch)
	4 V 20 V (via DIP switch)
	-20 V 20 V (via DIP switch)
	0 V 24 V (via DIP switch)
	4.8 V 24 V (via DIP switch)
	-24 V 24 V (via DIP switch)
	0 V 30 V (via DIP switch)
	6 V 30 V (via DIP switch)
	-30 V 30 V (via DIP switch)
Max. voltage input signal	33 V
Current input signal	0 mA 20 mA (via DIP switch)
	4 mA 20 mA (via DIP switch)
	-20 mA 20 mA (via DIP switch)
Max. current input signal	24 mA
Input resistance of voltage input	> 1000 kΩ
Input resistance current input	approx. 63 Ω (+0.7 V for test diode)

Output data

Signal: Voltage/current

Number of outputs	1
Configurable/programmable	Yes
Voltage output signal	0 V 5 V (via DIP switch)
	1 V 5 V (via DIP switch)
	-5 V 5 V (via DIP switch)
	0 V 10 V (via DIP switch)
	2 V 10 V (via DIP switch)
	-10 V 10 V (via DIP switch)
Non-load voltage	< 17 V
Current output signal	0 mA 20 mA (via DIP switch)
	4 mA 20 mA (via DIP switch)
Max. current output signal	22 mA
Short-circuit current	< 32 mA