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MCR passive isolator, two-channel, for electrical isolation of current signals without supply voltage, with spring-cage connection. Replacement item: 2864655 MINI MCR-SL-2CP-I-I

Your advantages

- Voltage drop at isolating amplifier of just 1.7 V
- · Does not require additional auxiliary voltage
- Two channels on a design width of just 6.2 mm
- · Highly compact 2-conductor passive isolators for the electrical isolation and filtering of standard analog signals
- · Supplied by an input loop

Commercial data

Item number	2864781
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C403
Product key	CK1213
Catalog page	Page 101 (C-7-2015)
GTIN	4017918974961
Weight per piece (including packing)	80.625 g
Weight per piece (excluding packing)	65.4 g
Customs tariff number	85437090
Country of origin	DE

PHŒN

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Technical data

Product properties

Product type	Passive isolators
Product family	MINI Analog
No. of channels	2
Insulation characteristics	
Insulation characteristics Overvoltage category	

Electrical properties

No. of channels	2
Rated insulation voltage	50 V AC/DC
Electrical isolation	Basic insulation in accordance with EN 61010
Electrical isolation between input and output	yes
Limit frequency (3 dB)	75 Hz
Test voltage input/output	1.5 kV AC (50 Hz, 60 s)
Test voltage channel/channel	1.5 kV AC (50 Hz, 60 s)
Signal transmission behavior	In = Out
Step response (10-90%)	5 ms (at 600 Ω load)
Maximum temperature coefficient	\leq 0.002 %/K (of measured value / 100 Ω load)
Temperature coefficient, typical	< 0.002 %/K (of measured value / 100 Ω load)
Maximum transmission error	≤ 0.1 % (of final value)
Additional error, load-dependent	< 0.03 % (of measured value / 100 Ω load)
Supply	
Supply voltage range	loop-powered, no external supply necessary
Power consumption	34 mW (per channel)

Input data

Signal

5	
Description of the input	Current input
Number of inputs	2
Configurable/programmable	no
Max. voltage input signal	18 V
Current input signal	0 mA 20 mA
	4 mA 20 mA
Max. current input signal	40 mA
Response current	approx. 190 µA
Input voltage limitation	< 2 V (20 mA)
Voltage dissipation	1.9 V (I = 20 mA)





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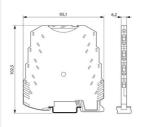
Signal: Current

Number of outputs	2
Configurable/programmable	no
Current output signal	0 mA 20 mA
	4 mA 20 mA
Load/output load current output	< 600 Ω (at I = 20 mA output signal)
Ripple	< 10 mV _{rms} (at 600 Ω)

Connection data

Connection method	Spring-cage connection
Stripping length	8 mm
Conductor cross section rigid	0.2 mm ² 2.5 mm ²
Conductor cross section flexible	0.2 mm ² 2.5 mm ²
Conductor cross section AWG	24 12

Dimensions



Width	6.2 mm
Height	93.1 mm
Depth	102.5 mm

Material specifications

Color	green (RAL 6021)
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 2
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 2
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 2
Housing material	РВТ

Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP20
Ambient temperature (operation)	-20 °C 65 °C
Ambient temperature (storage/transport)	-40 °C 85 °C

Approvals

CE	
Certificate	CE-compliant



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ATEX	
Identification	🐵 II 3 G Ex nA II T6 X
UL, USA/Canada	
Identification	UL 508 Recognized
	Class I, Div. 2, Groups A, B, C, D
GL	
Identification	GL EMC 2 D
EMC data	
Noise immunity	EN 61000-6-2
Note	When being exposed to interference, there may be minimal deviations.
Electromagnetic compatibility	Conformance with EMC directive
Noise emission	EN 61000-6-4
Electrostatic discharge	
Standards/regulations	EN 61000-4-2
Electrostatic discharge	
Comments	Criterion B
Electromagnetic HF field	
Designation	Electromagnetic RF field
Standards/regulations	EN 61000-4-3
Evaluation criterion	A
Fast transients (burst)	
Designation	Fast transients (burst)
Standards/regulations	EN 61000-4-4
Evaluation criterion	В
Surge current load (surge)	
Standards/regulations	EN 61000-4-5
Surge current load (surge)	
Comments	Criterion B
Conducted interference	
Designation	Conducted interferences
Standards/regulations	EN 61000-4-6
Evaluation criterion	A
Standards and regulations	
Electrical isolation	Basic insulation in accordance with EN 61010

Mounting

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Mounting type	DIN rail mounting
Assembly instructions	The DIN rail connector can be used for bridging the supply voltage. It can be snapped onto a 35 mm EN 60715 DIN rail.
Mounting position	any

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