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Extract from the online
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MINI MCR-SL-I-I

Order No.: 2864406



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2864406>

MCR 3-way isolating amplifier, for electrical isolation of analog signals,
with screw connection, input signal: 0(4) mA ... 20 mA, output signal:
0(4) mA ... 20 mA

Commercial data

EAN	4017918956158
Pack	1 pcs.
Customs tariff	85437090
Weight/Piece	0.07252 KG
Catalog page information	Page 335 (IF-2009)

Product notes

WEEE/RoHS-compliant since:
11/17/2006



<http://www.download.phoenixcontact.com>
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Product description

The 6.2 mm wide standard signal 3-way isolating amplifier MINI MCR-SL-I-I(-SP) is used for electrical isolation, amplification and filtering of standard signals.

On the input and output side, the analog standard signals 0...20 mA or 4...20 mA are available, electrically isolated.

Power (19.2 V DC to 30 V DC) can be supplied through connection terminal blocks on the modules or in conjunction with the DIN rail connector.

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Technical data
Input data

Configurable/programmable	No
Current input signal	0 mA ... 20 mA
	4 mA ... 20 mA
Max. input current	50 mA
Input resistance current input	Approx. 50 Ω

Output data

Configurable/programmable	No
Current output signal	0 mA ... 20 mA
	4 mA ... 20 mA
Max. output current	28 mA
Load/output load current output	< 500 Ω (at 20 mA)

Power supply

Nominal supply voltage	24 V DC
Range of supply voltages	19.2 V DC ... 30 V DC (to bridge the supply voltage, the DIN rail connector (ME 6,2 TBUS-2 1,5/5-ST-3,81 GN, Order No. 2869728) can be used. It can be snapped onto a 35 mm DIN rail according to EN 60715)
Max. current consumption	< 20 mA
Power consumption	< 450 mW

Connection data

Type of connection	Screw connection
Conductor cross section solid min.	0.14 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	12
Stripping length	12 mm
Screw thread	M3

General data

No. of channels	1
Width	6.2 mm

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Height	93.1 mm
Depth	102.5 mm
Transmission error, max.	≤ 0.1 % (of end value)
Maximum temperature coefficient	< 0.01 %/K
Temperature coefficient, typical	< 0.002 %/K
Limit frequency (3 dB)	Approx. 100 Hz
Step response (10-90%)	Approx. 3.2 ms
Protective circuitry	Transient protection
Ambient temperature (operation)	-20 °C ... 65 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP20
Pollution degree	2
Surge voltage category	II
Electromagnetic compatibility	Conformance with EMC directive 2004/108/EC
Emitted interference	EN 50081-2
Immunity to interference	EN 61000-6-2:2005
Color	green
Housing material	PBT
Mounting position	Any
Assembly instructions	The DIN rail bus connector (T-BUS) can be used for bridging the supply voltage. It can be snapped onto a 35 mm EN 60715 DIN rail.
Conformity	CE compliant
ATEX	Ex II 3 G Ex nA II T4 X
UL, USA / Canada	UL 508 Recognized
GL	GL EMC 2 D

Certificates / Approvals



Certification CUL, GL, UL

Certification Ex: CUL-EX LIS, UL-EX LIS

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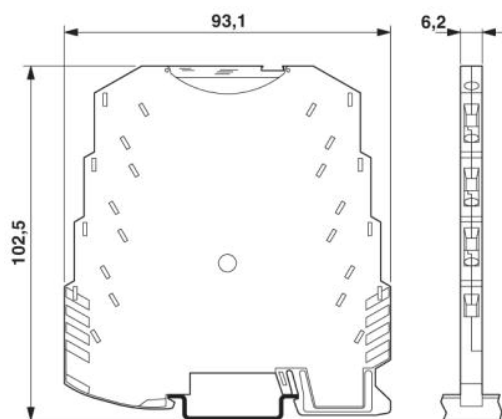
<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2864406>

Accessories

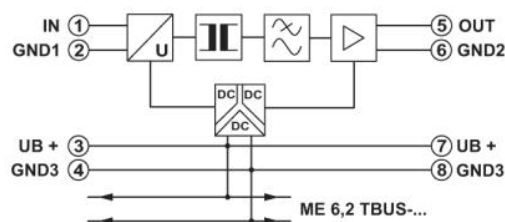
Item	Designation	Description
General		
2869728	ME 6,2 TBUS-2 1,5/5-ST-3,81 GN	DIN rail connector (T-BUS), 5-pos., for bridging the supply voltage, can be snapped onto NS 35/... DIN rails according to EN 60715
2864134	MINI MCR-SL-PTB	MCR power terminal block for supplying several MINI Analog modules via the DIN rail connectors, with screw connection, current consumption up to max. 2 A
2864147	MINI MCR-SL-PTB-SP	MCR power terminal block for supplying several MINI-ANALOG modules via the DIN rail connectors, with spring-cage connection, current consumption up to max. 2 A
2866653	MINI-PS-100-240AC/24DC/1.5/ EX	DIN rail power supply unit, primary-switched mode, slim design, output: 24 V DC / 1.5 A, ATEX approval
2866983	MINI-SYS-PS-100-240AC/24DC/1.5	DIN rail power supply unit, primary-switched mode, slim design, output: 24 V DC / 1.5 A

Diagrams/Drawings

Dimensioned drawing



Circuit diagram



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Approbationslogos (EX-Bereich)



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