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► Extract from the online catalog



MCR 3-way isolating amplifier, for electrical isolation of analog signals, with screw connection, input signal: 0..10 V/± 10 V, output signal: 0..10 V/±10 V

Order No.	2864684
Ord designation	MINI MCR-SL-U-U
EAN	4017918956387
Pack	1 Pcs.
Customs tariff	85389091
Weight/Piece	0.0723 KG
Catalog page information	Page 291 (IF-2007)

► Product notes

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



IMPORTANT : This date is valid for Customers in Germany only. Date Format is MM/DD/YYYY. Please contact your local in-country Phoenix Contact location or designated business partner for a Logistics Compliant date in your area. In order to guarantee delivery of RoHS-Compliant product, please purchase Phoenix Contact parts from authorized Phoenix Contact representatives and distributors.

▶ Technical data

Input data

Configurable/programmable	No
Voltage input signal	0 V ... 10 V
Voltage input signal	-10 V ... 10 V
Max. input voltage	30 V
Input resistance of voltage input	Approx. 100 kΩ

Output data

Configurable/programmable	No
Voltage output signal	0 V ... 10 V
Voltage output signal	-10 V ... 10 V
Max. output voltage	12.5 V
Load/output load voltage output	≥ 10 kΩ

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 in accordance with EN 60715)
Max. current consumption	< 20 mA
Power consumption	< 240 mW (for 24 V DC)

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
Length	102.5 mm
Width	6.2 mm
Height	93.1 mm
Transmission error, max.	≤ 0.1 % (of end value)
Temperature coefficient, max. (/K)	< 0.01 %/K
Temperature coefficient, typical	< 0.002 %/K
Cut-off 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
Emitted interference	EN 50081-2
Immunity to interference	EN 61000-6-2
Color	green

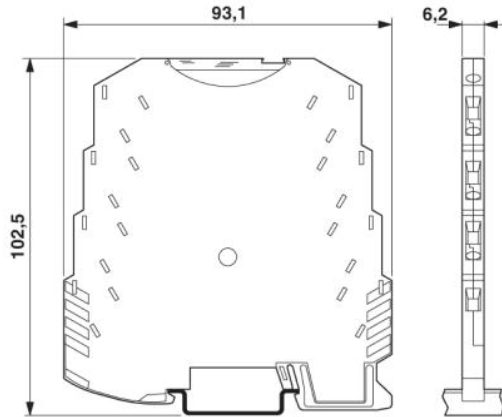
MINI MCR-SL-U-U



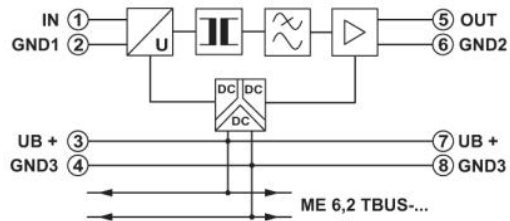
Housing material	PBT
Installation position	Any
Assembly instructions	The DIN rail bus connector (T-BUS) can be used for bridging the supply voltage. It can be snapped onto a 35 mm EN 60715 DIN rail.
Conformance	CE compliance
ATEX approval	II 3 G Ex nA II T4 X
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D or non-hazardous locations

► Drawings

Dimensioned drawing



Circuit diagram



► Accessories

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

► Address

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