

MINI MCR-SL-RPS-I-I

Order No.: 2864422



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2864422>

MCR repeater power supplies, screw connection, input signal: (0)4..20 mA, output signal: (0)4..20 mA



Commercial data	
GTIN (EAN)	4017918956165
sales group	H522
Pack	1 pcs.
Customs tariff	85437090
Weight/Piece	0.074 KG
Catalog page information	Page 337 (IF-2009)

Product notes

WEEE/RoHS-compliant since: 12/12/2006



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Product description

The 6.2 mm wide MINI MCR-SL-RPS-I-I... repeater power supply supplies transmitters in the field and electrically isolates the input signal from the output signal. The module can be used in both isolator and repeater power supply operation.

Electrically isolated 0...20 mA or 4...20 mA analog standard signals are available on the input and output side.

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

Technical data

Input data

Description of the input	Current input (sensor circuit)
Current input signal	4 mA ... 20 mA (repeater power supply and isolator operation) 0 mA ... 20 mA (isolator operation)
Max. input current	28 mA
Input resistance current input	Approx. 50 Ω
Transmitter supply voltage	(U _B max. 4.5 V for load 0 mA ... 20 mA)
Transmitter supply voltage range	14.7 V DC ... 25.5 V DC

Output data

Output name	Current output
Current output signal	4 mA ... 20 mA (repeater power supply and isolator operation) 0 mA ... 20 mA (isolator operation)
Max. output current	28 mA
Load/output load current output	$\leq 500 \Omega$ (at I = 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)
Power consumption	< 900 mW (at 24 V DC and in repeater power supply operation) < 600 mW (at 24 V DC and in isolator operation)

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
Height	93.1 mm
Depth	102.5 mm
Transmission error, max.	≤ 0.2 % (of end value)
Transmission error, typical	≤ 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. 3.5 ms
Protective circuitry	Transient protection
Ambient temperature (operation)	-20 °C ... 60 °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 89/336/EEC
Emitted interference	EN 61000-6-4
Immunity to interference	EN 61000-6-2:2005
Color	green
Housing material	PBT
Mounting position	Any
Assembly instructions	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.
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:

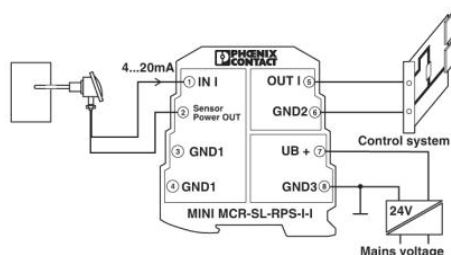
CUL-EX LIS, UL-EX LIS

Accessories

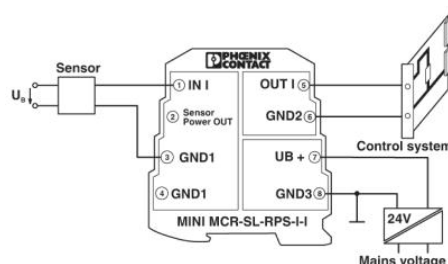
Item	Designation	Description
General		
2869728	ME 6,2 TBUS-2 1,5/5-ST-3,81 GN	DIN rail connector (T-BUS), 5-pos., for bridging the supply voltage, can be snapped onto NS 35/... DIN rails according to EN 60715
2308111	MINI MCR DKL	Fold up transparent cover for MINI MCR modules with additional labeling option using insert strips and flat Zack marker strip 6.2 mm
2810272	MINI MCR-DKL-LABEL	Label for extended marking of MINI MCR modules in connection with the MINI MCR-DKL
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
2811268	MINI MCR-SL-V8-FLK 16-A	Eight MINI analog signal converters with screw connection method can be connected to a control system using a system adapter and system cabling with a minimum of wiring and very low error risk.
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

Application drawing

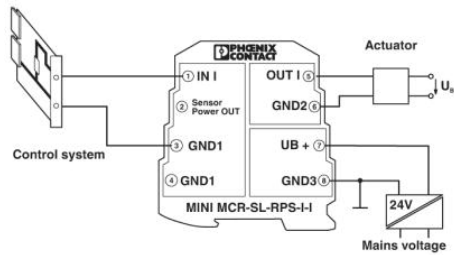


Repeater power supply operation with a passive sensor

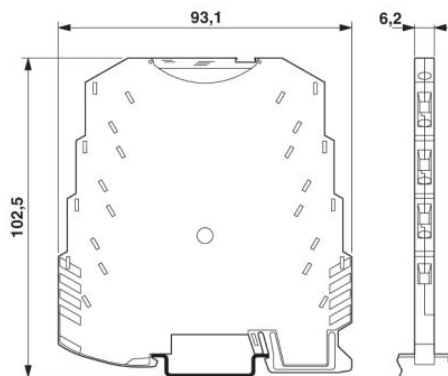


Isolator operation with an active sensor

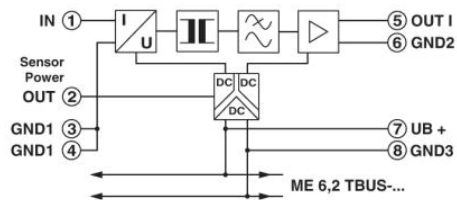
Isolator operation at the analog output module



Dimensioned drawing



Circuit diagram



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