

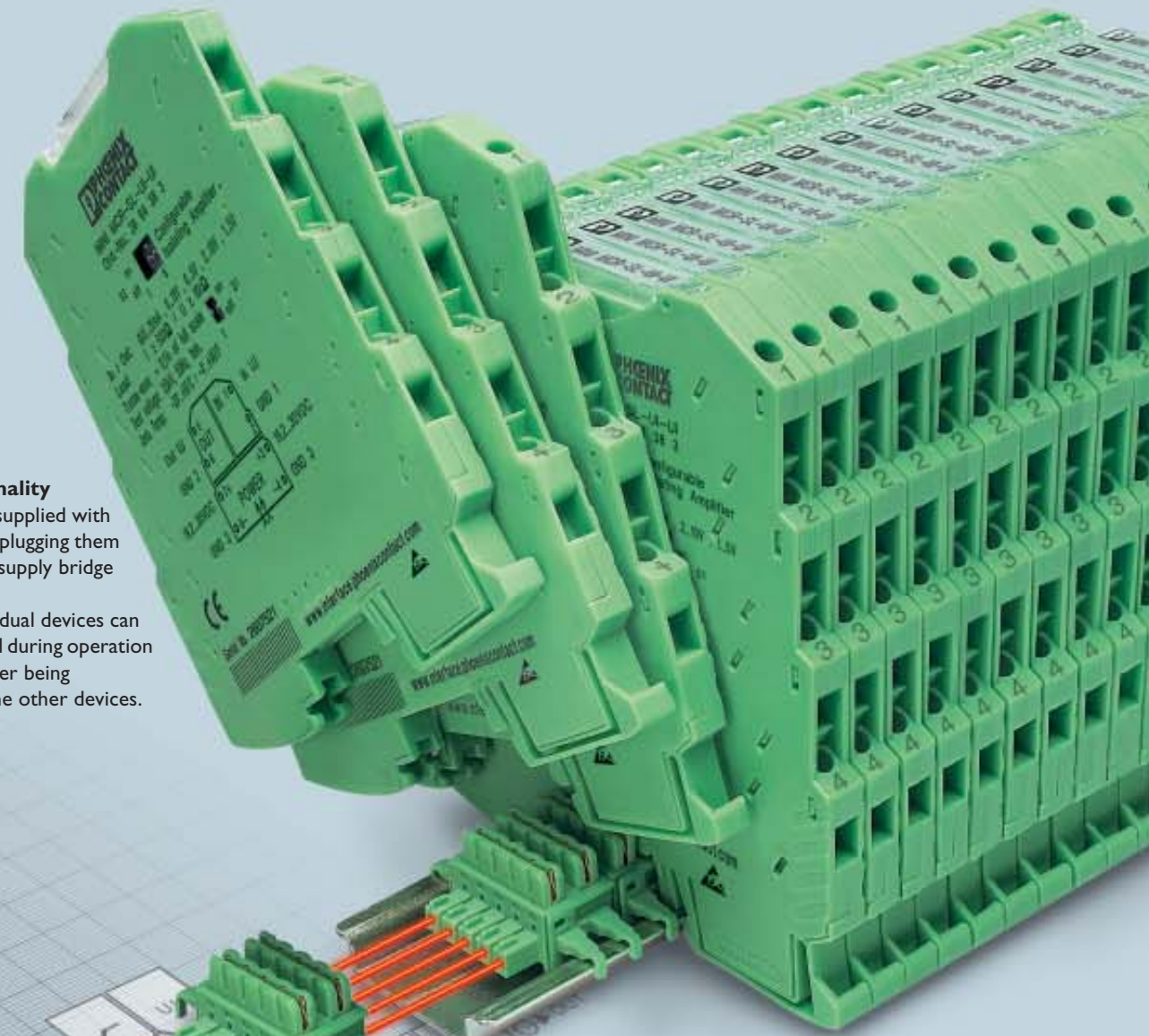
MINI Analog converter sets new standards in the 6 mm class

Measuring temperatures, converting or isolating signals – no problem with the new analog range from Phoenix Contact. MINI Analog provides state-of-the-art technology for extreme flexibility and maximum ease of installation and configuration.

Top features in a 6 mm housing

- Complete range of products
- 3-way isolation
- Test voltage 1.5 kV AC
- Transmission error < 0.2%
- Universally configurable versions
- Screw or spring-cage connection system
- Power supply bridge for simple handling

Less wiring – Better functionality
The devices are supplied with power by simply plugging them onto the power supply bridge on the DIN rail. In addition, individual devices can be easily replaced during operation without the power being interrupted to the other devices.



INTERFACE MINI Analog – New standards in the 6 mm class



Diversity
Input and output signals are configurable via DIP switches.



The full range of products:

- Configurable signal isolators
- Dedicated signal isolators
- Repeater power supplies
- Signal duplicator
- 1 and 2-channel passive loop powered isolators
- PT100 measuring transducers (2, 3, 4-wire connection system)
- Thermocouple measuring transducers (type J and type K)
- Limit value switch

Fax

- I would like to receive information on "MINI Analog".
- I would like to receive further information on:

Please send your newsletter to the e-mail address below.

- I would like a personal consultation without obligation.

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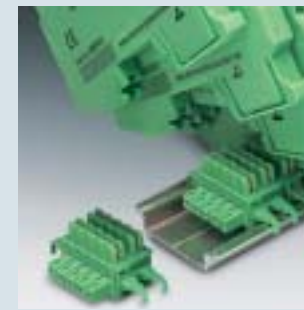
MINI Analog – The whole family with innovative technology

Intelligent solutions

Housing



The particularly narrow width of 6 mm, and the uniform housing shape of the MINI Analog family saves space in the control cabinet.



Bridging from below unites the family.

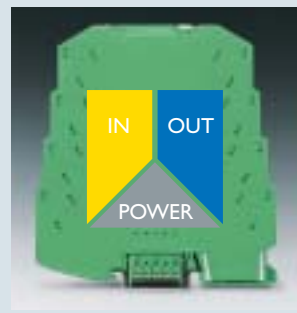


The constructional height is ideal for 120 mm high distributor boxes.



Choice of screw or spring-cage connection system.

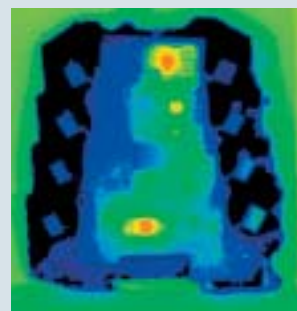
Electronics



3-way isolation increases operational reliability in the face of disturbances in the system.



The configuration is set with DIP switches.

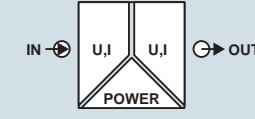


Power dissipation is a maximum of 400 mW per channel.



High quality signal transmission with transmission errors below 0.2%.

Insulation

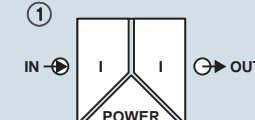


Configurable 3-way isolating amplifiers

Screw connection
MINI MCR-SL-UI-UI (preconfigured) **Order No.: 28 64 38 3**
MINI MCR-SL-UI-UI-NC (not configured) **28 64 15 0**

Spring-cage connection
MINI MCR-SL-UI-UI-SP (not configured) **28 64 71 0**
MINI MCR-SL-UI-UI-SP-NC (not configured) **28 64 16 3**

Input can be configured: 0(4)...20 mA; 0...10 V; 0(1)...5 V
 Output can be configured: 0(4)...20 mA; 0...10 V; 0(1)...5 V

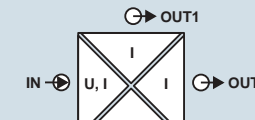


Standard signal 3-way isolating amplifiers, not configurable

Screw connection
 ① **MINI MCR-SL-I-I** **Order No.: 28 64 40 6**
 ② **MINI MCR-SL-U-U** **28 64 68 4**

Spring-cage connection
 ① **MINI MCR-SL-I-I-SP** **28 64 72 3**
 ② **MINI MCR-SL-U-U-SP** **28 64 69 7**

• Input: ① 0(4)...20 mA; ② 0...10 V; ± 10 V
 • Output: ① 0(4)...20 mA; ② 0...10 V; ± 10 V



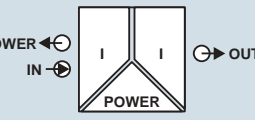
Signal duplicator^{*)}, Can be configured on the input side

Screw connection
MINI MCR-SL-UI-2I (preconfigured) **Order No.: 28 64 79 4**
MINI MCR-SL-UI-2I-NC (not configured) **28 64 17 6**

Spring-cage connection
MINI MCR-SL-UI-2I-SP (preconfigured) **28 64 80 4**
MINI MCR-SL-UI-2I-SP-NC (not configured) **28 64 18 9**

• Input can be configured: 0(4)...20 mA; 0...10 V
 • Output: 2 x 0...20 mA or 2 x 4...20 mA

Available III quarter 2004

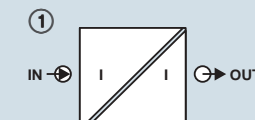


Repeater power supply^{*)}

Screw connection
MINI MCR-SL-RPS-I-I **Order No.: 28 64 42 2**

Spring-cage connection
MINI MCR-SL-RPS-I-I-SP **28 64 75 2**

• Input: 4...20 mA for 2 and 3-conductor transmitter
 • Output: 4...20 mA



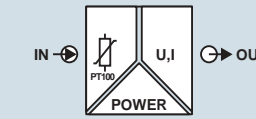
One ① and two-channel ② passive loop-powered isolators

Screw connection
 ① **MINI MCR-SL-1CP-I-I** **Order No.: 28 64 41 9**
 ② **MINI MCR-SL-2CP-I-I** **28 64 65 5**

Spring-cage connection
 ① **MINI MCR-SL-1CP-I-I-SP** **28 64 74 9**
 ② **MINI MCR-SL-2CP-I-I-SP** **28 64 78 1**

• Input: 0(4)...20 mA
 • Output: 0(4)...20 mA

Temperature

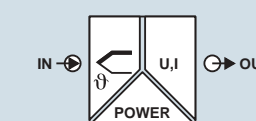


Configurable temperature transducer for PT100 resistance thermometers

Screw connection
MINI MCR-SL-PT100-UI (preconfigured) **Order No.: 28 64 43 5**
MINI MCR-SL-PT100-UI-NC (not configured) **28 64 27 3**

Spring-cage connection
MINI MCR-SL-PT100-UI-SP (preconfigured) **28 64 73 6**
MINI MCR-SL-PT100-UI-SP-NC (not configured) **28 64 28 6**

• Input can be configured: 2, 3 or 4-conductor PT100 resistance thermometer in acc. with IEC 751/EN 60 751
 • Output can be configured: 0(4)...20 mA; 0...10V; 0(1)...5 V, Fault evaluation

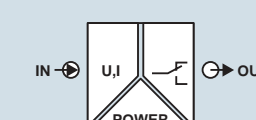


Configurable temperature transducer for thermocouple types J or K

Screw connection
MINI MCR-SL-TC-UI (preconfigured) **Order No.: 28 64 44 8**
MINI MCR-SL-TC-UI-NC (not configured) **28 64 29 3**

• Input can be configured: Thermocouple types J or K in acc. with IEC 584-1, Temperature ranges
 • Output can be configured: 0(4)...20 mA; 0...10V; 0(1)...5 V, Fault evaluation

Control



Configurable limit value switch

Screw connection
MINI MCR-SL-UI-REL **Order No.: 28 64 48 0**

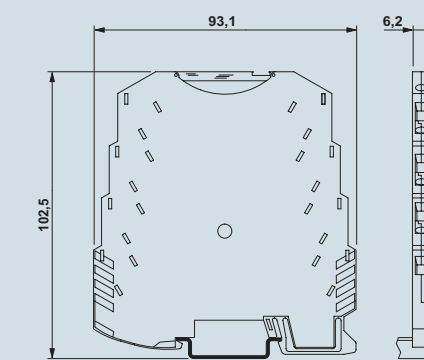
Spring-cage connection
MINI MCR-SL-UI-REL-SP **28 64 49 3**

• Input can be configured: 0(4)...20 mA; 0...10 V
 • Output: Relay contact, 1 PDT

Available III quarter 2004

Common technical data

- Supply voltage: 19.2 - 30 V DC
- Test voltage: 1.5 kV
- Temperature range: -20°C to +65°C
- Temperature range: -20°C to +60°C^{*)}



Power bridging



DIN rail bus connectors

ME 6,2 TBUS-2 1,5/5-ST-3,81 GN

- Voltage bridging for two MINI Analog converters
- Maximum current carrying capacity: 8 A perpendicular/parallel to rail 2 A to the module

Order No.: 28 69 72 8

Voltage infeed



Power terminal

Screw connection
MINI MCR-SL-PTB **Order No.: 28 64 13 4**

Spring-cage connection
MINI MCR-SL-PTB-SP **28 64 14 7**

- Voltage display
- Redundant voltage supply

System power supply



MINI-SYS-PS-100-240AC/24DC/1.5

Order No.: 28 66 98 3

- Current routed along DIN rail bus connector via pluggable screw terminal block
- Input: 85 - 264 V AC (45-65 Hz)
- Output voltage: 24 V DC ± 1%
- Output current: 1.5 A at 60°C / 2 A at 40°C
- Power loss: < 12 W at nominal load

