

MCR-S-1-5-UI-DCI-NC

Order No.: 2814715

The illustration shows version MCR-S-1-5-UI-DCI



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2814715>

MCR current transducer, programmable and configurable, for measuring direct, alternating and distorted currents, input current 0...0.2 to 0...11 A, unconfigured



| Commercial data | |
|--------------------------|--------------------|
| GTIN (EAN) | |
| sales group | H530 |
| Pack | 1 pcs. |
| Customs tariff | 85437090 |
| Catalog page information | Page 712 (IF-2011) |

Product notes

WEEE/RoHS-compliant since:
06/19/2006

<http://www.download.phoenixcontact.com>
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| Technical data | |
|---------------------------|-------------------------|
| Input data | |
| Input | Current measuring input |
| Number of inputs | 3 |
| Configurable/programmable | Yes, unconfigured |
| Input current range | 0 A ... 11 A (AC/DC) |

| | |
|--------------------------------------|---|
| Operate threshold | 2 % (of measuring range nominal value 1/5/10 A) |
| Setting range for min. input current | 0 A ... 0.2 A |
| Setting range for max. input current | 0 A ... 11 A |
| Impulse form | AC, DC or distorted currents |
| Overload capacity | 2 x I _N (continuous) |
| Surge strength | 20 x I _N (1 s) |
| Frequency measuring range | 15 Hz ... 400 Hz |
| Connection method | Screw connection |

Output data

| | |
|---------------------------------|---------------------------------|
| Output name | Voltage output / current output |
| Configurable/programmable | Yes, unconfigured |
| Voltage output signal | 0 V ... 10 V |
| | 2 V ... 10 V |
| | -10 V ... 10 V |
| | 0 V ... 5 V |
| | 1 V ... 5 V |
| | -5 V ... 5 V |
| | 10 V ... 0 V |
| | 10 V ... 2 V |
| | 10 V ... -10 V |
| | 5 V ... 0 V |
| | 5 V ... 1 V |
| | 5 V ... -5 V |
| Current output signal | 0 mA ... 20 mA |
| | 4 mA ... 20 mA |
| | 20 mA ... 0 mA |
| | 20 mA ... 4 mA |
| Load/output load voltage output | > 10 kΩ |
| Load/output load current output | < 500 Ω |

Power supply

| | |
|--------------------------|------------------------|
| Supply voltage range | 20 V DC ... 30 V DC |
| Max. current consumption | < 40 mA (without load) |

Connection data

| | |
|-------------------|------------------|
| Connection method | Screw connection |
|-------------------|------------------|

| | |
|--|---------------------|
| Conductor cross section solid min. | 0.2 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. | 24 |
| Conductor cross section AWG/kcmil max | 14 |
| Stripping length | 8 mm |
| Screw thread | M3 |

General data

| | |
|---|---|
| Width | 22.5 mm |
| Height | 99 mm |
| Depth | 114.5 mm |
| Maximum transmission error | < 0.5 % (of nominal range value under nominal conditions) |
| Temperature coefficient, typical | < 0.025 %/K |
| Step response (10-90%) | 330 ms (with AC) 40 ms (with DC) |
| Status display | Green LED |
| Ambient temperature (operation) | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Degree of protection | IP20 |
| Surge voltage category | III |
| Pollution degree | 2 |
| Rated insulation voltage | 300 V AC (to earth) |
| Test voltage input/output | 4 kV (50 Hz, 1 min.) |
| Test voltage input/power supply | 4 kV (50 Hz, 1 min.) |
| Test voltage output/power supply | 500 V (50 Hz, 1 min.) |
| Color | green |
| Housing material | Polyamide PA non-reinforced |
| Mounting position | Any |
| Conformance | CE-compliant |
| UL, USA / Canada | Class I, Zone 2, AEx nC IIC T6, Ex nC IIC T6 |

Certificates / Approvals



Certification CUL, GOST, UL

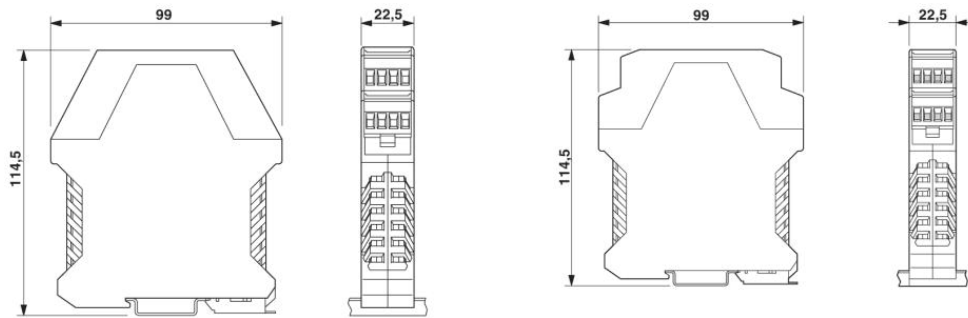
Certification Ex: CUL-EX LIS, UL-EX LIS

Accessories

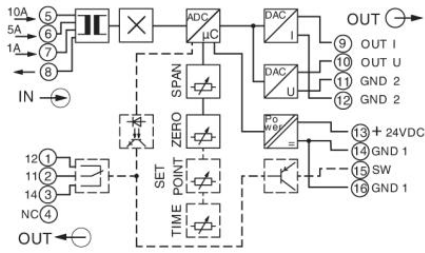
| Item | Designation | Description |
|------------------------|------------------|--|
| Cable/conductor | | |
| 2881078 | CM-KBL-RS232/USB | Connecting cable D-9-SUB to USB, with adapter D-9-SUB to D-25-SUB. |
| 2814388 | MCR-TTL-RS232-E | Software adapter cable (Stereo jack connector/D-SUB 25-pos.), 1.2 m length, for programming MCR-T-..., MCR-S-... and MCR-f-... modules |
| General | | |
| 2814799 | MCR/PI-CONF-WIN | PI/MCR configuration software, for programming the PI/Ex-RTD..., PI/Ex-THC..., MCR-T-..., MCR-PSP-..., MCR-f... and MCR-s...modules |

Diagrams/Drawings

Dimensioned drawing



Circuit diagram



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