

Model Number

KCD2-E2L

Sensor output interface terminal with lead breakage monitoring

Features

- 1-channel terminal amplifier
- NAMUR sensor input
- DC 24 V supply voltage
- Standard interface for prevention of signal transmission errors
- Switching status indicator, yellow LED
- Lead breakage monitoring: The lead breakage monitoring can be disconnected by bridging terminals 1 and 3
- Short-circuit proof electronic output
- Low noise sensitivity
- Compact terminal housing
- Clips onto standard 35 mm rail to DIN EN 50 022
- Degree of protection IP20

Technical data

Functional safety related parameters

MTTF_d 1837 a

Indicators/operating means

LED yellow switch output
lead breakage: LED off, output locked

Electrical specifications

Operating voltage U_B 10 ... 30 V DC
Ripple ≤ 10 %
Operating current approx. 22 mA

Input

Connection terminals 1+, 2-
Connectable sensor types NAMUR
Pulse length/pulse interval ≥ 0.5 ms / ≥ 0.5 ms
Short-circuit current approx. 8 mA
Sensor supply 8 V DC
Switching point 1.2 ... 2.1 mA hysteresis approx. 0.2 mA
Line fault detection with
Trip value 1 kHz

Output

Connection terminal 4+
Current 200 mA short-circuit protected
Transistor PNP
Signal level $U_B - 1.1$ V

Transfer characteristics

Mode of operation NO contact
Switching frequency 1 kHz

Ambient conditions

Ambient temperature -25 ... 70 °C (-13 ... 158 °F)
Storage temperature -25 ... 85 °C (-13 ... 185 °F)

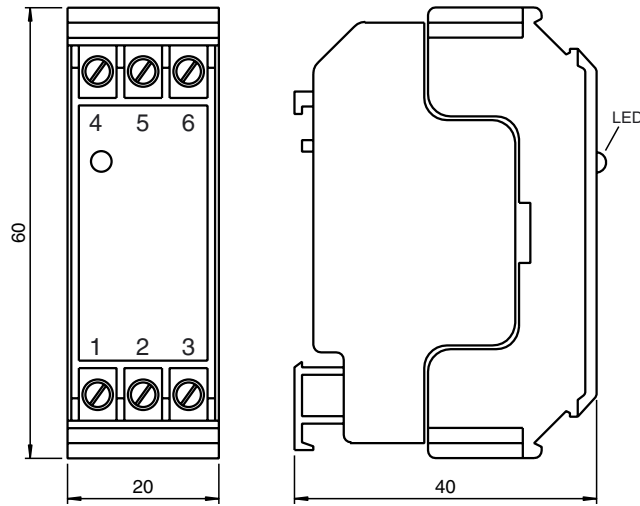
Mechanical specifications

Degree of protection IP20
Connection self-opening apparatus connection terminals, max. core cross-section 0.34 ... 2.5 mm²
Mass 60 g
Dimensions 20x60x40 (in mm)

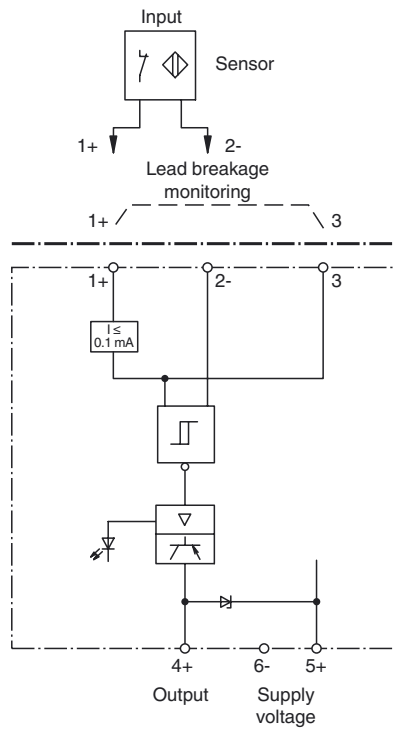
Compliance with standards and directives

Directive conformity
EMC Directive 2004/108/EC EN 61326-1:2006
Standard conformity
Noise immunity EN 61326-1:2006
Degree of protection EN 60529:2000

Dimensions



Electrical connection



For lead break monitoring you must switch a resistance of 10 kOhm parallel to the contact locally, if you use a mechanical contact as an emitter.

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