



1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) Signal LED



Basic features

| | |
|---------------------|--|
| Approval/Conformity | CE cULus WEEE |
| Basic standard | IEC 60947-5-7 |
| Scope of delivery | Nut (2x) Screwdriver Short guide |
| Series | M18 |

Display/Operation

| | |
|--------------------|-----|
| Function indicator | yes |
| Power indicator | yes |

Electrical connection

| | |
|-----------------------------------|----------------------|
| Cable length L | 2 m |
| Conductor cross-section | 0.25 mm ² |
| Number of conductors | 3 |
| Polarity reversal protected | yes |
| Protection against device mix-ups | yes |
| Short-circuit protection | yes |

Electrical data

| | |
|---|-------------|
| No-load current I _{o max.} at U _e | 17 mA |
| Operating voltage U _b | 12...35 VDC |
| Rated insulation voltage U _i | 75 V DC |
| Rated operating voltage U _{e DC} | 24 V |
| Switching frequency | 100 Hz |
| Utilization category | DC -12 |

Environmental conditions

| | |
|---------------------|------------|
| Ambient temperature | 10...55 °C |
| Contamination scale | 1 |
| IP rating | IP67 |

Functional safety

| | |
|--------------|-------|
| MTTF (40 °C) | 217 a |
|--------------|-------|

Interface

| | |
|---------------|-------------------------------------|
| Analog output | Analog, current falling on approach |
|---------------|-------------------------------------|

Material

| | |
|--------------------------|------------------------|
| Cover material | PBT |
| Housing material | 1.4301 stainless steel |
| Material jacket | PVC |
| Material sensing surface | PBT |

Mechanical data

| | |
|-------------------|--------------------|
| Dimension | Ø 18 x 65 mm |
| Installation | for flush mounting |
| Size | M18x1 |
| Thread (A) | M18x1 |
| Tightening torque | 30 Nm |

Range/Distance

Measuring range 0...8 mm

Rated operating distance S_n 8 mm

Repeat accuracy max. (% of S_r) 1 %

Temperature drift max. (% of S_r) 10 %

Remarks

The potentiometer does not have a fixed stop, but can be turned endlessly without destroying anything.

If no change in the switching signal is detected, the potentiometer should be turned forwards or backwards until a signal change occurs at the output.

For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Wiring Diagrams (Schematic)

