



Basic features

| | |
|---------------------|-------------------|
| Approval/Conformity | CE EAC WEEE |
| Basic standard | IEC 60947-5-6 |

Display/Operation

| | |
|--------------------|----|
| Function indicator | no |
| Power indicator | no |

Electrical connection

| | |
|-----------------------------|----------------------|
| Cable diameter D | 3.20 mm |
| Cable length L | 5 m |
| Conductor cross-section | 0.14 mm ² |
| Connection type | Cable, 5.00 m, PUR |
| Number of conductors | 2 |
| Polarity reversal protected | to 9 V |

Electrical data

| | |
|------------------------------------|-----------------|
| Current consumption max., damped | 1 mA |
| Current consumption min., undamped | 6 mA |
| Internal capacitance Ci max. | 30 nF |
| Internal inductance Li max. | 1 nH |
| Operating voltage Ub | 7.7...9 VDC |
| Permiss. series resistance Rv | 550...1100 Ohms |
| Rated insulation voltage Ui | 75 V DC |
| Rated operating voltage Ue DC | 8.2 V |
| Rated series resistance Rv | 1000 Ohm |
| Ready delay tv max. | 10 ms |
| Switching frequency | 300 Hz |

Environmental conditions

| | |
|-------------------------|---------------------------------|
| Ambient temperature | -25...70 °C |
| Contamination scale | 3 |
| EN 60068-2-27, Shock | Half-sinus, 30 gn, 11 ms |
| EN 60068-2-6, Vibration | 55 Hz, amplitude 1 mm, 3x30 min |
| Protection degree | IP67 |

Material

| | |
|--------------------------|---------------|
| Housing material | Brass |
| Material jacket | PUR |
| Material sensing surface | PA 12 |
| Surface protection | nickel plated |

Mechanical data

| | |
|-------------------|--------------------|
| Dimension | Ø 30 x 30 mm |
| Installation | for flush mounting |
| Size | M30x1.5 |
| Tightening torque | 70 Nm |

Output/Interface

| | |
|-----------|-------|
| Interface | NAMUR |
|-----------|-------|

Range/Distance

| | |
|----------------------------------|-------|
| Assured operating distance Sa | 8 mm |
| Rated operating distance Sn | 10 mm |
| Real switching distance sr | 10 mm |
| Repeat accuracy max. (% of Sr) | 5.0 % |
| Temperature drift max. (% of Sr) | 10 % |
| Tolerance Sr | ±10 % |

Remarks

Effective operating distance measured at 1.55 mA.
Operate only with suitable approved switching amplifier.

Wiring Diagrams

