

1) Sensing surface, 2) Housing, 3) Cover, 4) Power indicator green, 5) Function indicator yellow



Basic features

| | |
|----------------------------|--|
| Additional features | Electrically conductive media Foam and residue compensation |
| Approval/Conformity | cULus CE UKCA WEEE |
| Basic standard | IEC 60947-5-2 |
| Scope of delivery | Holder Installation guide |
| Sensitivity | teachable depending on media |
| Series | R08 |

Display/Operation

| | |
|---------------------------|-----------|
| Function indicator | yes |
| Power indicator | yes |
| Setting | Teachable |

Electrical connection

| | |
|--|----------------------|
| Cable diameter D | 3.4 mm |
| Cable length L | 2 m |
| Conductor cross-section | 0.14 mm ² |
| Number of conductors | 4 |
| Polarity reversal protected | yes |
| Protection against device mix-ups | yes |
| Short-circuit protection | yes |

Electrical data

| | |
|---|-------------|
| Load capacitance max. at Ue | 0.33 µF |
| No-load current I_o max. at Ue | 13.5 mA |
| Operating voltage U_b | 12...30 VDC |
| Rated insulation voltage U_i | 75 V DC |
| Rated operating current I_e | 50 mA |
| Rated operating voltage U_e DC | 24 V |
| Ready delay t_v max. | 200 ms |
| Residual current I_r max. | 10 µA |
| Ripple max. (% of U_e) | 10 % |
| Switching frequency | 10 Hz |
| Utilization category | DC -13 |
| Voltage drop static max. | 1.5 V |

Environmental conditions

| | |
|----------------------------|-------------|
| Ambient temperature | -25...70 °C |
| Contamination scale | 3 |
| IP rating | IP67 |

Functional safety

| | |
|---------------------|------|
| MTTF (40 °C) | 98 a |
|---------------------|------|

Interface

| | |
|-------------------------|------------------------|
| Switching output | NPN normally open (NO) |
|-------------------------|------------------------|

Material

| | |
|--------------------------|-----|
| Housing material | PP |
| Material jacket | PUR |
| Material sensing surface | PP |

Mechanical data

| | |
|-------------------|---------------------------------|
| Dimension | 34 x 16 x 8 mm |
| Installation | flush with container outer wall |
| Size | Block style |
| Tightening torque | 0.2 Nm |

Remarks

Note for using in standard applications with aqueous media: The Smart Level sensors are factory adjusted for standard applications. With this setting the Smart Level sensors can be used without further adjustment for detecting aqueous media through glass or plastic walls. The factory setting can automatically mask glass or plastic walls (approx. 0.5 mm to 6 mm) and compensate for foam, moisture and dirt buildup inside and outside the container. Special applications: The Smart Level sensors can also be used with aqueous media in previously unsolvable and critical applications such as through glass or plastic walls thicker than 6 mm. Here the user can change the factory setting.

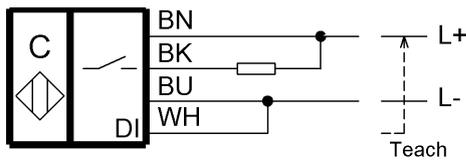
For full calibration connect input DI to L+ for 2...7 seconds. For empty calibration connect to L+ for 7..12 seconds.

Input DI can be used for teaching the switching point. In normal operation input DI should be connected continuously to L-.

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

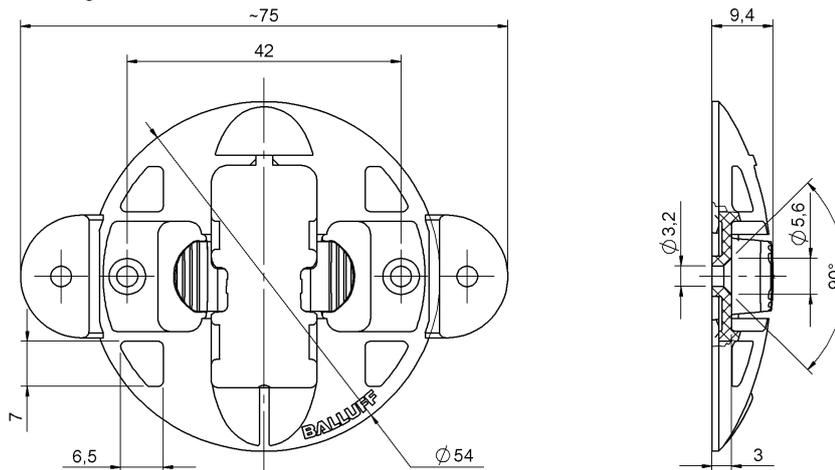
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Wiring Diagrams (Schematic)



Help Views

Zubehör - Halter
 Accessories - Mounting frame



Werkstoff Halter: PP
 Material mounting frame: PP