

1) Potentiometer, 2) LED function indicator



Basic features

| | |
|----------------------------|--|
| Additional features | Electrically conductive media Foam and residue compensation |
| Approval/Conformity | CE cULus EAC WEEE |
| Basic standard | IEC 60947-5-2 |
| Scope of delivery | Screwdriver Short guide Holder |
| Sensitivity | media-dependent, adjustable |
| Series | R08 |

Electrical data

| | |
|--|-------------|
| No-load current I_0 max. at U_e | 10 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. | 100 ms |
| Residual current I_r max. | 10 μ A |
| Ripple max. (% of U_e) | 10 % |
| Switching frequency | 2 Hz |
| Utilization category | DC -13 |
| Voltage drop static max. | 1.5 V |

Display/Operation

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

Environmental conditions

| | |
|----------------------------|-------------|
| Ambient temperature | -30...70 °C |
| Contamination scale | 3 |
| IP rating | IP67 |

Electrical connection

| | |
|--|------------------|
| Cable diameter D | 3.1 mm |
| Cable length L | 0.2 m |
| Connection | M8x1-Male, 3-pin |
| Polarity reversal protected | yes |
| Protection against device mix-ups | yes |
| Short-circuit protection | yes |

Functional safety

| | |
|---------------------|-------|
| MTTF (40 °C) | 462 a |
|---------------------|-------|

Interface

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

Capacitive Sensors
BCS R08RR01-PSMFAC-EP00,2-GS49
Order Code: BCS008M

BALLUFF

Material

| | |
|--------------------------|-----|
| Cover material | PP |
| 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 |

Range/Distance

| | |
|---|------------|
| Hysteresis H max. (% of Sr) | 15.0 % |
| Measuring range | 0.5...8 mm |
| Rated operating distance S _n | 7 mm |

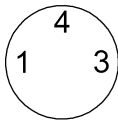
Remarks

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 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.

Connector Drawings



Wiring Diagrams

