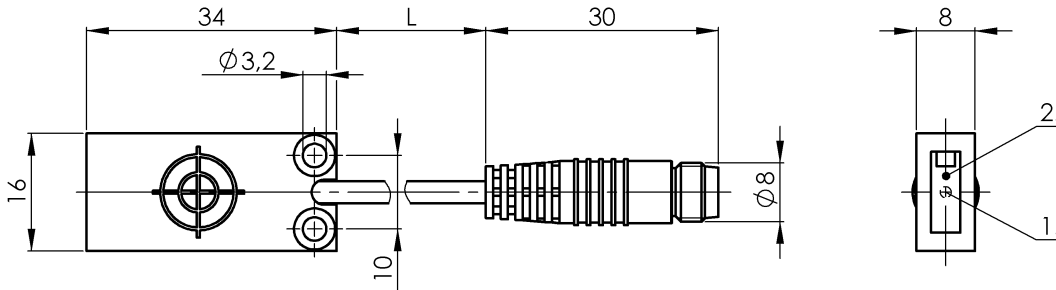


## BCS R08RR01-PSMFAC-EP00,2-GS49 BCS008M



1) Potentiometer 2) LED function indicator



### Electrical connection

|                             |                                   |
|-----------------------------|-----------------------------------|
| Cable length                | 0.2 m                             |
| Connection                  | M8x1-Connector, 3-pole            |
| Connection type             | Cable with connector, 0.20 m, PUR |
| Polarity reversal protected | yes                               |
| Short-circuit protection    | yes                               |

### Electrical data

|                                  |             |
|----------------------------------|-------------|
| Hysteresis H max. (% of Sr)      | 15.0 %      |
| MTTF (40 °C)                     | 462 a       |
| Operating voltage $U_b$          | 12...30 VDC |
| Protected against miswiring      | yes         |
| Rated insulation voltage $U_i$   | 75 V DC     |
| Rated operating current $I_e$ DC | 50 mA       |
| Ready delay $t_v$ max.           | 100 ms      |
| Repeat accuracy max. (% of Sr)   | 5.0 %       |
| Switching frequency              | 2 Hz        |
| Utilization category             | DC -13      |
| Voltage drop static max.         | 1.5 V       |

### Environmental conditions

|                           |             |
|---------------------------|-------------|
| Ambient temperature       | -30...70 °C |
| Protection type IEC 60529 | IP67        |

### Functional safety

|                     |     |
|---------------------|-----|
| Diagnostic coverage | 0 % |
| Functional safety   | no  |

### General data

|                     |                             |
|---------------------|-----------------------------|
| Approval/Conformity | CE<br>cULus                 |
| Basic standard      | IEC 60947-5-2               |
| Scope of delivery   | Holder (1x)                 |
| Sensitivity         | media-dependent, adjustable |
| Series              | Level sensor                |

### Material

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

### Mechanical data

|              |                                 |
|--------------|---------------------------------|
| Dimension    | 34 x 16 x 8 mm                  |
| Installation | flush with container outer wall |

### Output/Interface

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

### Range/Distance

|                                  |            |
|----------------------------------|------------|
| Measuring range                  | 0.5...8 mm |
| Range                            | 0.5...8 mm |
| Rated operating distance $S_n$   | 7 mm       |
| Ripple max. (% of $U_e$ )        | 10 %       |
| Temperature drift max. (% of Sr) | 20 %       |

## BCS R08RR01-PSMFAC-EP00,2-GS49 BCS008M

### Remarks

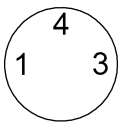
Note for using in standard applications with aqueous media: The Smart Level sensors are factory adjusted for standard applications. With this setting the Smart Level sensors can be used without further adjustment for detecting aqueous media through glass or plastic walls. The factory setting can automatically 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 further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

### Connector view



### Wiring Diagram

