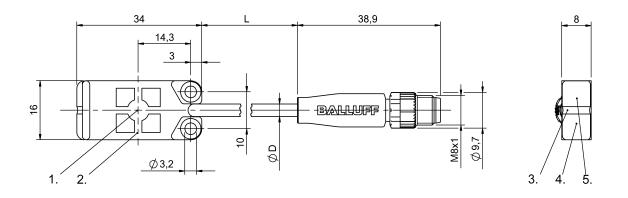
Capacitive Sensors BCS R08RRE-PSMFHC-EP00,3-GS75 **Order Code: BCS012Z**

BALLUFF



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

X

Basic features

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

yes

Function indicator

Power indicator	yes
Setting	Teachable

Electrical connection

Cable diameter D	3.4 mm
Cable length L	0.3 m
Conductor cross-section	0.14 mm ²
Connection	M8x1-Male, 4-pin
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 lo max. at Ue	12 mA
Operating voltage Ub	1230 VDC
Rated insulation voltage Ui	75 V DC
Rated operating current le	50 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	200 ms
Residual current Ir max.	10 µA
Ripple max. (% of Ue)	10 %
Switching frequency	10 Hz
Utilization category	DC -13
Voltage drop static max.	1.5 V
Environmental conditions	
Ambient temperature	-2570 °C
Contamination scale	3
IP rating	IP67
Functional safety	
MTTF (40 °C)	98 a
Interface	
Switching output	PNP normally open (NO)
<u> </u>	

Capacitive Sensors BCS R08RRE-PSMFHC-EP00,3-GS75 Order Code: BCS012Z



Material

material		meentameat aata	meenumeur dutu	
Housing material	PP	Dimension	34 x 16 x 8 mm	
Material jacket	PUR	Installation	flush with container outer wall	
Material sensing surface	PP	Size	Block style	
		Tightening torque	0.2 Nm	

Mechanical data

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-.

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.

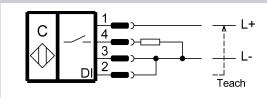
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

Connector Drawings



Wiring Diagrams



Capacitive Sensors BCS R08RRE-PSMFHC-EP00,3-GS75 Order Code: BCS012Z



Help Views

