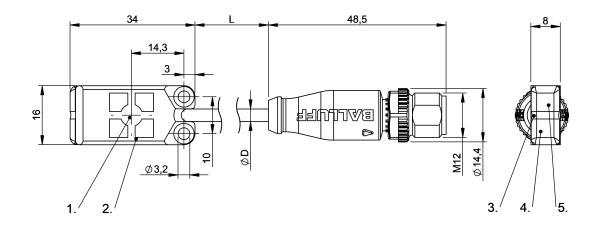
Capacitive Sensors BCS R08RRE-PIMFHC-EP00,3-GS04 Order Code: BCS012P





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	3.40 mm
Cable length L	0.3 m
Conductor cross-section	0.14 mm ²
Connection	M12x1-Male, 4-pin, A-coded
Number of pins	4
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	0.001 µF
No-load current Io max. at Ue	13.5 mA
Operating voltage Ub	1830 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
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IU-LINK	
IO-Link Profil IDs	0x0001 SSP0
IO-Link function classes	0x8000 Device Identification
	0x8001 Binary Data Channel
	0x8002 Process Data Variables
	0x8003 Device Diagnosis
	0x8004 Teach Commands
Supported IO-Link Profiles	Legacy Smart Sensor Profile
Interface	
Cycle time min.	5 ms
Interface	IO-Link 1.1
Process data OUT	2 bytes
Switching output	PNP normally open (NO)

Material
Cover material
Housing material

Mechanical data

Material sensing surface

Material jacket

Dimension	
Installation	
Size	
Tightening torque	

34 x 16 x 8 mm flush with container outer wall Block style 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-.

Switching output- and function programmable using IO-Link.

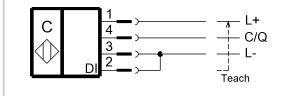
For more information about MTTF and B10d see MTTF / B10d Certificate

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 (Schematic)



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Help Views

