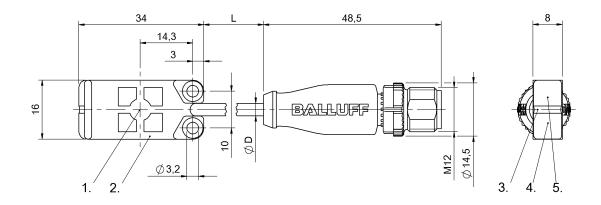
# BCS R08RRE-PIMFHC-EP00,3-GS04

Order Code: BCS012P





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











- Basic realures	Basic	features
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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	

#### 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 <sup>2</sup>
Connection	M12x1-Male, 4-pin, A-coded
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 lo 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 μΑ
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	°C) 98 a	98 a
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## BCS R08RRE-PIMFHC-EP00,3-GS04 Order Code: BCS012P



#### 10-Link

IO-Link Profil IDs

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

0x0001 SSP0
0x8001 Device Identification
0x8002 Process Data Variables
0x8003 Device Diagnosis
0x8004 Teach Commands

## 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
 PP

 Housing material
 PP

 Material jacket
 PUR

 Material sensing surface
 PP

#### Mechanical data

Dimension34 x 16 x 8 mmInstallationflush with container outer wall

SizeBlock styleTightening torque0.2 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.

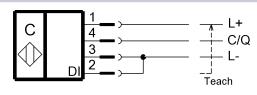
For more information about MTTF and B10d see MTTF / B10d Certificate

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



**Capacitive Sensors** 

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