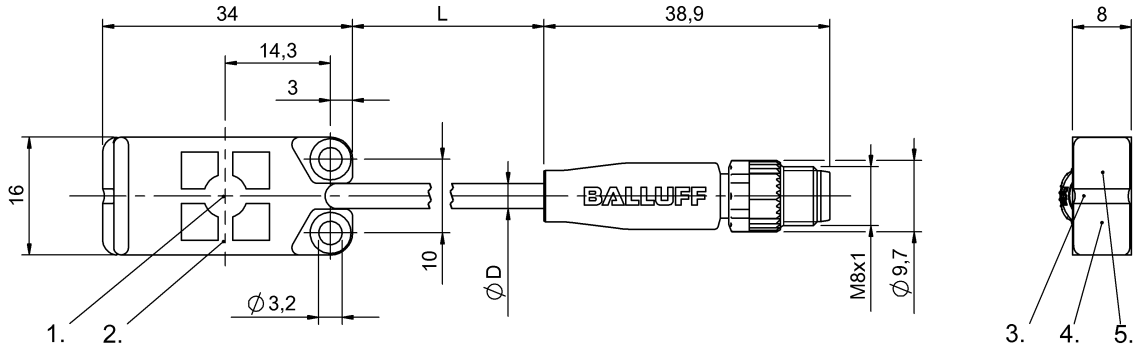
Capacitive Sensors

BCS R08RRE-PSM80C-EP00,3-GS75
Order Code: BCS012T



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

Basic features

Approval/Conformity	cULus CE WEEE EAC
Basic standard	IEC 60947-5-2
Scope of delivery	Holder Installation guide
Sensitivity	Switching distance teachable
Series	R08
Trademark	Global

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 mm²
Connection	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 Io max. at Ue	12.0 mA
Operating voltage Ub	12...30 VDC
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	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	50 Hz
Utilization category	DC -13
Voltage drop static max.	1.5 V

Environmental conditions

Ambient temperature	-25...70 °C
Contamination scale	1
IP rating	IP67
Storage temperature	-25...85 °C

Functional safety

MTTF (40 °C)	98 a

Interface

Switching output	PNP normally open (NO)

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Material

Cover material	PP
Housing material	PP
Material jacket	PUR
Material sensing surface	PP

Mechanical data

Dimension	34 x 16 x 8 mm
Installation	for flush mounting
Size	Block style
Tightening torque	0.2 Nm

Range/Distance

Hysteresis H max. (% of Sr)	15.0 %
Measuring range	1...8 mm
Real switching distance sr	8 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	20 % [-5…55 °C]

Remarks

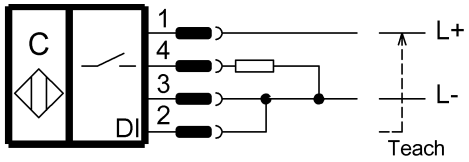
For full calibration connect input DI to L+ for 2...7 seconds. For empty calibration connect to L+ for 7..12 seconds.
Input DI can be used for teaching the switching point. In normal operation input DI should be connected continuously to L-.
For more information about MTTF and B10d see MTTF / B10d Certificate

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



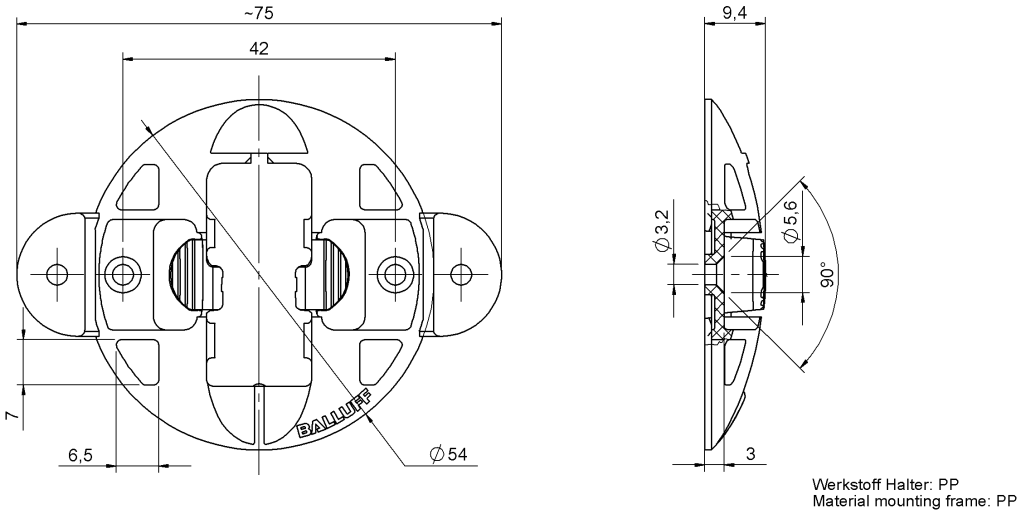
Wiring Diagrams



BCS R08RRE-PSM80C-EP00,3-GS75
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Help Views

Zubehör - Halter
Accessories - Mounting frame



Werkstoff Halter: PP
Material mounting frame: PP