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

BVLLAL



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



#### **Basic features**

Approval/Conformity	cULus
	CE
	UKCA
	WEEE
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 mm <sup>2</sup>
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 lo max. at Ue	12.0 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	50 Hz
Utilization category	DC -13
Voltage drop static max.	1.5 V
Environmental conditions	
Ambient temperature	-2570 °C
Contamination scale	1
IP rating	IP67
Functional safety	
MTTF (40 °C)	98 a
Interface	
Switching output	
	PNP normally open (NO)

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#### Material

# Cover materialPPHousing materialPPMaterial jacketPURMaterial sensing surfacePP

#### 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	18 mm
Real switching distance sr	8 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	20 % [-555 °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-.

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



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# **Help Views**

