

1) Sensing surface, 2) Housing, 3) Cover, 4) LED function indicator



### Display/Operation

Function indicator	yes
Power indicator	no
Setting	Teachable

### Electrical connection

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	0.33 µF
No-load current I <sub>o</sub> max. at Ue	15.0 mA
Operating voltage U <sub>b</sub>	12...30 VDC
Rated insulation voltage U <sub>i</sub>	75 V DC
Rated operating current I <sub>e</sub>	50 mA
Rated operating voltage U <sub>e</sub> DC	24 V
Ready delay t <sub>v</sub> max.	200 ms
Ripple max. (% of U <sub>e</sub> )	10 %
Switching frequency	5 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

### Environmental conditions

Ambient temperature	-10...85 °C
Autoclave compatible	135 °C, 1 h
Chemical resistance	all media types
Contamination scale	3
IP rating	IP68 IP69K at connector exit
Media temperature max.	105 °C
Storage temperature	-10...80 °C

### Functional safety

MTTF (40 °C)	94 a
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### General data

<b>Additional features</b>	Electrically conductive media Foam and residue compensation CIP/SIP capable
<b>Application</b>	Hygienic applications
<b>Approval/Conformity</b>	EHEDG certified FDA compliant CE WEEE IO-Link cULus LISTED
<b>Basic standard</b>	IEC 60947-5-2
<b>Scope of delivery</b>	Installation guide
<b>Sensitivity</b>	teachable depending on media
<b>Series</b>	S04

Capacitive Sensors  
**BCS S04K501-PSCFNG-S04G-T51**  
**Order Code: BCS011M**



**Material**

Cover material	Stainless steel (1.4404)
Housing material	Stainless steel (1.4404)
Material sensing surface	PEEK

**Mechanical data**

Dimension	Ø 30 x 96 mm
Installation	non-flush
Pressure rating max.	16 bar
Size	D30.0
Thread (A)	G 1/2"
Tightening torque	20...25 Nm

**Output/Interface**

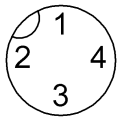
Switching output	PNP normally open (NO)
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**Remarks**

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 full calibration connect input DI to L+ for 2...7 seconds. For empty calibration connect to L+ for 7..12 seconds.  
 For further information about the 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**

