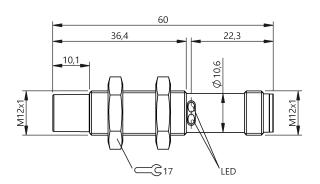
# BCS M12K4D2-GOM80G-S04G **Order Code: BCS017A**











### **Basic features**

Approval/Conformity	CE
	cULus
	EAC
	WEEE
Basic standard	IEC 60947-5-2
Scope of delivery	2x nut M12x1
	Installation guide
Sensitivity	Switching distance teachable
Series	M12

# Display/Operation

**Function indicator** yes Power indicator yes

# **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	220 nF
No-load current lo max. at Ue	15 mA
Operating voltage Ub	1230 VDC
Rated insulation voltage Ui	75 V DC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	50 ms
Ripple max. (% of Ue)	10 %
Switching frequency	100 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

### **Environmental conditions**

Ambient temperature	-1080 °C
Contamination scale	2
IP rating	IP67
Storage temperature	-2580 °C

# **Functional safety**

MTTF (40 °C) 96.6 a

### Material

Cover material	PA 12
Housing material	Stainless steel (1.4404)
Material sensing surface	PEEK

#### **Capacitive Sensors**

# BCS M12K4D2-GOM80G-S04G Order Code: BCS017A



#### Mechanical data

DimensionØ 12 x 60 mmInstallationnon-flushSizeM12x1Thread (A)M12x1Tightening torque8 Nm

## Range/Distance

Hysteresis H max. (% of Sr) 15 %

Measuring range 0.5...8 mm

Rated operating distance Sn 8 mm

Repeat accuracy max. (% of Sr) 2 %

Temperature drift max. (% of Sr) 20 %

### Output/Interface

Switching output Push-pull Normally closed (NC)

#### Remarks

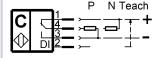
For full calibration connect input DI to L+ for 2...7 seconds. For empty calibration connect to L+ for 7..12 seconds. Input DI can be used for teaching the switching point. In normal operation input DI should be connected continuously to L-. For more information about MTTF and B10d see MTTF / B10d Certificate

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**



Internet

www.balluff.com

eCl@ss 9.1: 27-27-01-02 ETIM 6.0: EC002715

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