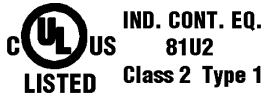


1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED function indicator



### Basic features

Approval/Conformity	CE cULus WEEE
Basic standard	IEC 60947-5-2
Scope of delivery	Nut (2x) Short guide Screwdriver
Sensitivity	Switching distance adjustable
Series	M12

### Electrical data

No-load current $I_0$ max. at $U_e$	15 mA
Operating voltage $U_b$	12...35 VDC
Rated insulation voltage $U_i$	75 V DC
Rated operating current $I_e$	200 mA
Rated operating voltage $U_e$ DC	24 V
Ripple max. (% of $U_e$ )	10 %
Switching frequency	100 Hz
Utilization category	DC -13
Voltage drop static max.	0.8 V

### Display/Operation

Function indicator	yes
--------------------	-----

### Electrical connection

Cable length L	2 m
Conductor cross-section	0.14 mm <sup>2</sup>
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

### Environmental conditions

Ambient temperature	-30...70 °C
Contamination scale	1
Protection degree	IP65

### Functional safety

MTTF (40 °C)	450 a
--------------	-------

### Material

Cover material	POM
Housing material	Stainless steel (1.4301)
Material jacket	PUR
Material sensing surface	PTFE

Capacitive Sensors  
**BCS M12T4G1-PSM40C-EP02**  
Order Code: BCS002Z

**BALLUFF**

**Mechanical data**

Dimension	Ø 12 x 50 mm
Installation	for flush mounting
Size	M12x1
Thread (A)	M12x1
Tightening torque	8 Nm

**Range/Distance**

Hysteresis H max. (% of Sr)	15.0 %
Measuring range	1...4 mm
Rated operating distance S <sub>n</sub>	4 mm
Repeat accuracy max. (% of Sr)	2.0 %
Temperature drift max. (% of Sr)	20 %

**Output/Interface**

Switching output	PNP normally open (NO)
------------------	------------------------

**Wiring Diagrams**

