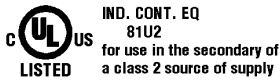


1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED function indicator



### Electrical connection

Cable length L	2 m
Conductor cross-section	0.20 mm <sup>2</sup>
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

### Electrical data

Operating voltage U <sub>b</sub>	12...35 VDC
Rated insulation voltage U <sub>i</sub>	75 V DC
Rated operating current I <sub>e</sub>	200 mA
Ripple max. (% of U <sub>e</sub> )	10 %
Switching frequency	100 Hz
Utilization category	DC -13
Voltage drop static max.	0.8 V

### Environmental conditions

Ambient temperature	-30...70 °C
IP rating	IP65

### Functional safety

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

### General data

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

### Material

Cover material	PTFE
Housing material	PTFE
Material jacket	PTFE
Material sensing surface	PTFE

### Mechanical data

Dimension	Ø 12 x 53 mm
Installation	non-flush
Size	M12x1
Thread (A)	M12x1
Tightening torque	0.5 Nm

### Output/Interface

Switching output	NPN normally closed (NC)
------------------	--------------------------

Capacitive Sensors  
**BCS M12TTG1-NOM80G-ET02**  
Order Code: BCS0072

**BALLUFF**

**Range/Distance**

Hysteresis H max. (% of Sr) 15.0 %  
Measuring range 1...8 mm

Rated operating distance  $S_n$  8 mm  
Repeat accuracy max. (% of  $S_r$ ) 2.0 %  
Temperature drift max. (% of  $S_r$ ) 15 %

**Wiring Diagrams**

