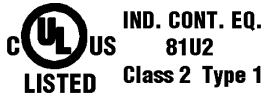


1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED Power, 6) LED function indicator



Basic features

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

Display/Operation

Function indicator	yes
Power indicator	yes

Electrical connection

Cable diameter D	3.50 mm
Cable length L	2 m
Conductor cross-section	0.14 mm ²
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	no
Short-circuit protection	yes

Electrical data

No-load current I_0 max. at U_e	16 mA
Operating voltage U_b	10...30 VDC
Rated insulation voltage U_i	75 V DC
Rated operating current I_e	100 mA
Rated operating voltage U_e DC	24 V
Ready delay t_v max.	100 ms
Residual current I_r max.	10 μ A
Ripple max. (% of U_e)	10 %
Switching frequency	100 Hz
Utilization category	DC -13
Voltage drop static max.	1.5 V

Environmental conditions

Ambient temperature	-25...85 °C
Contamination scale	1
Protection degree	IP67
Storage temperature	-25...85 °C

Functional safety

MTTF (40 °C)	343 a
--------------	-------

Material

Cover material	PA
Housing material	Stainless steel (1.4305)
Material jacket	PUR
Material sensing surface	PBT

Capacitive Sensors
BCS M12B4I1-PSC40D-EP02
Order Code: BCS00R4

BALLUFF

Mechanical data

Dimension	Ø 12 x 61 mm
Installation	for flush mounting
Size	M12x1
Thread (A)	M12x1
Tightening torque	8 Nm

Output/Interface

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

Range/Distance

Hysteresis H max. (% of Sr)	15 %
Measuring range	1...4 mm
Repeat accuracy max. (% of Sr)	2 %
Temperature drift max. (% of Sr)	20 % [-5...55 °C]

Wiring Diagrams

