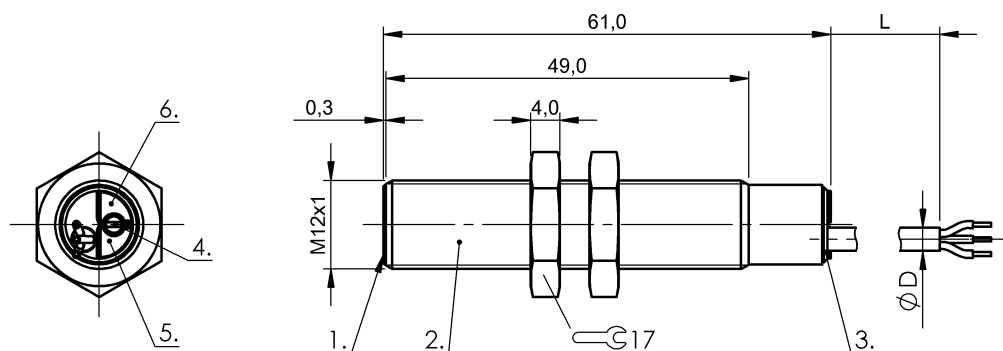




1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED Power, 6) LED function indicator



IND. CONT. EQ
 81U2
 for use in the secondary of
 a class 2 source of supply

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., undamped	13 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 µA
Switching frequency	100 Hz
Utilization category	DC -13
Voltage drop static max.	1.5 V

Environmental conditions

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

Functional safety

MTTF (40 °C)	343 a
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Material

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

Capacitive Sensors
BCS M12B4I1-NSC40D-EP02
Order Code: BCS00P9

BALLUFF

Mechanical data

Dimension	Ø 12 x 61 mm
Installation	for flush mounting
Size	M12x1
Thread (A)	M12x1
Tightening torque	40 Nm

Output/Interface

Switching output	NPN normally open (NO)
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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

