



1) Sensing surface, 2) Housing, 3) Cover



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	adjustable on base unit
Series	M12

Electrical connection

Cable length L	2 m
Connection	Special connector-Special connector
Polarity reversal protected	not relevant
Short-circuit protection	not relevant

Electrical data

Operating voltage Ub	4...8 VDC
Rated insulation voltage Ui	75 V DC
Ripple max. (% of Ue)	10 %
Switching frequency	100 Hz
Utilization category	DC -13

Environmental conditions

Ambient temperature	-30...80 °C
Protection degree	IP67

Functional safety

MTTF (40 °C)	1813 a
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Material

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

Mechanical data

Dimension	Ø 12 x 34 mm
Installation	non-flush
Size	M12x1
Thread (A)	M12x1
Tightening torque	40 Nm

Output/Interface

Interface	Special interface
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Range/Distance

Hysteresis H max. (% of Sr)	10.0 %
Measuring range	1...8 mm
Rated operating distance Sn	8 mm
Repeat accuracy max. (% of Sr)	2 %
Temperature drift max. (% of Sr)	20 %

Capacitive Sensors
BCS M12T4D1-XXS80G-EP02-GZ01-002
Order Code: BCS0019

BALLUFF

Remarks

Required accessories, sensor amplifier BAE SA-...

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.