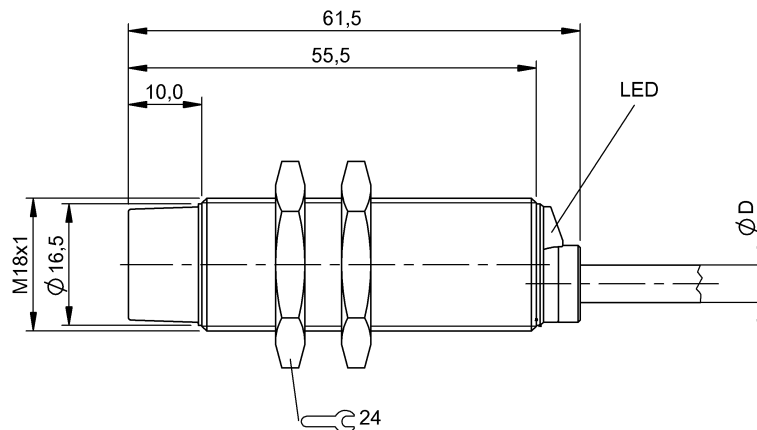




IND. CONT. EQ.
81U2
Type 1



Basic features

Approval/Conformity	CE
	EAC
Basic standard	cULus
	WEEE
	IEC 60947-5-2

Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Cable diameter D	4.60 mm
Cable length L	5 m
Conductor cross-section	0.34 mm ²
Connection type	Cable, 5.00 m, PVC
Number of conductors	2
Polarity reversal protected	yes
Protection against device mix-ups	no
Short-circuit protection	yes

Electrical data

Min. operating current I _m	5 mA
Operating voltage U _b	20...250 VDC/20...250 VAC
Protection class	II
Rated insulation voltage U _i	250 V AC
Rated operating current I _e	250 mA
Rated operating voltage U _e AC	110 V
Rated short circuit current	100 A
Ready delay t _v max.	100 ms
Residual current I _r max.	1700 µA
Switching frequency	250 Hz
Utilization category	AC-140
	DC -13
Voltage drop static max.	11 V

Environmental conditions

Ambient temperature	-25...70 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
Protection degree	IP67

Material

Housing material	Brass, nickel plated
Material jacket	PVC
Material sensing surface	PA 12
Surface protection	nickel plated

Mechanical data

Dimension	Ø 18 x 61.5 mm
Installation	non-flush
Size	M18x1
Tightening torque	35 Nm

Output/Interface

Switching output	Normally open (NO)
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Range/Distance

Assured operating distance Sa	6.4 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	8 mm
Real switching distance sr	8 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Remarks

Once the overload has been eliminated, interrupt operating voltage Vs for approx. 2 sec.
 $T_a \geq 25\text{ °C} \dots \leq 70\text{ °C}$: $I_e = 250 - 2.2 \times (T_a - 25)$

Wiring Diagrams

