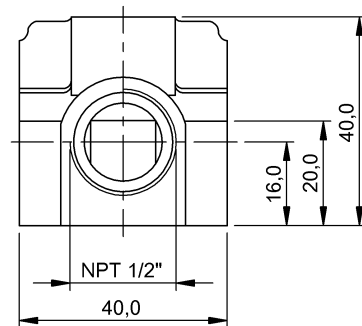
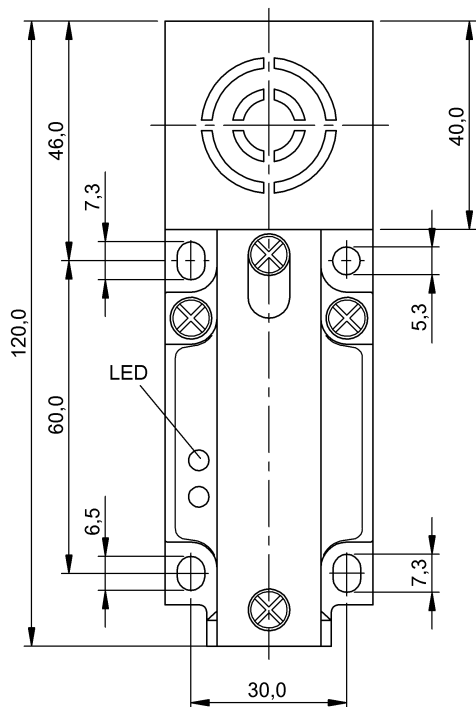




IND. CONT. EQ.
81U2
Type 1

Basic features

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

Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Polarity reversal protected	yes
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.	200 ms
Residual current I_r max.	1700 μ A
Switching frequency	100 Hz
Utilization category	AC-140 DC -13
Voltage drop static max.	11.5 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

Inductive Sensors
BES 517-223-U3-E
Order Code: BES0241

BALLUFF

Material

Housing material	Aluminum, Die casting
	PBT
Material sensing surface	PBT

Mechanical data

Connection cross-section	2.5 mm ²
Dimension	120 x 40 x 40 mm
Installation	for flush mounting
Size	40x40
Tightening torque clamping screw	0.8 Nm

Output/Interface

Cable fitting, thread size	NPT 1/2"
Switching output	NO/NC

Range/Distance

Assured operating distance Sa	12 mm
Hysteresis H max. (% of Sr)	20.0 %
Rated operating distance Sn	15 mm
Real switching distance sr	15 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.
Programming of the switching function using internal switch: Position 1: NO (default)
Position 2: NC
NO/NC programmable.
 $T_a \geq 25\text{ °C} \dots \leq 70\text{ °C}$: $I_e = 250 - 1.6 \times (T_a - 25)$

Wiring Diagrams

