



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 g _n , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67

Inductive Sensors
BES 517-223-M3-E
Order Code: BES020Y

BALLUFF

Interface

Cable fitting, thread size	M20x1.5
Switching output	NO/NC

Material

Housing material	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

Remarks

$T_a \geq 25\text{ °C} \dots \leq 70\text{ °C}$: $I_e = 250 - 1.6 \times (T_a - 25)$

Programming of the switching function using internal switch: Position 1: NO (default)

Position 2: NC

Once the overload has been eliminated, interrupt operating voltage V_s for approx. 2 sec.

NO/NC programmable.

Range/Distance

Assured operating distance S_a	12 mm
Hysteresis H max. (% of S_r)	20.0 %
Rated operating distance S_n	15 mm
Real switching distance s_r	15 mm
Repeat accuracy max. (% of S_r)	5.0 %
Temperature drift max. (% of S_r)	10 %
Tolerance S_r	$\pm 10\%$

Wiring Diagrams

