



Basic features

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

Display/Operation

Function indicator	LED yellow
Power indicator	Green LED

Electrical connection

Polarity reversal protected	yes
Short-circuit protection	synchronizing

Electrical data

Min. operating current I_m	5 mA
Operating voltage U_b	20...275 VDC/20...253 VAC
Protection class	II
Rated insulation voltage U_i	230 V AC
Rated operating current I_e	500 mA
Rated operating voltage U_e AC	230 V
Rated operating voltage U_e DC	250 V
Rated short circuit current	100 A
Ready delay t_v max.	300 ms
Residual current I_r max.	1500 μ A

Environmental conditions

Ambient temperature	-25...85 °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

Functional safety

MTTF (40 °C)	540 a
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Inductive Sensors
BES Q40KU-UPU20B-KM20
Order Code: BES05YW

BALLUFF

Interface

Switching output NO/NC

Material

Housing material Plastic
Material sensing surface PA 6.6

Mechanical data

Connection cross-section 2.5 mm²
Dimension 40 x 40 x 118 mm
Installation for flush mounting
Size 40x40
Tightening torque clamping screw 1.2 Nm

Range/Distance

Hysteresis H max. (% of Sr) 10 %
Real switching distance sr 20 mm
Repeat accuracy max. (% of Sr) 5.0 %
Temperature drift max. (% of Sr) 10 %
Tolerance Sr ±10 %

Wiring Diagrams

