



1) Sensing surface



Basic features

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

Display/Operation

Function indicator	no
Power indicator	no

Electrical connection

Connection	LEMO connector-Special connector, 2-pin
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	9 µF
Min. operating current Im	0 mA
No-load current Io max., damped	7 mA
No-load current Io max., undamped	3 mA
Operating voltage Ub	10...30 VDC
Rated operating voltage Ue DC	24 V
Ready delay tv max.	12 ms
Ripple max. (% of Ue)	10 %
Switching frequency	100 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

Environmental conditions

Ambient temperature	0...230 °C
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP50

Functional safety

MTTF (40 °C)	2206 a
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Inductive Sensors
BES Q40KG-X20F-SZ03
Order Code: **BES05N6**

BALLUFF

Interface

Switching output for switching amplifier

Material

Housing material Stainless steel
Material sensing surface LCP

Mechanical data

Dimension 40 x 40 x 66.6 mm
Installation non-flush
Size 40x40

Range/Distance

Assured operating distance Sa 16.2 mm
Hysteresis H max. (% of Sr) 15.0 %
Rated operating distance Sn 20 mm
Real switching distance sr 20 mm
Repeat accuracy max. (% of Sr) 1.12 %
Tolerance Sr ±15 %

Connector Drawings

