



1) Sensing surface



Basic features

Approval/Conformity	CE EAC WEEE
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 U_e	9 μ F
Min. operating current I_m	0 mA
No-load current I_o max., damped	7 mA
No-load current I_o max., undamped	3 mA
Operating voltage U_b	10...30 VDC
Rated operating voltage U_e DC	24 V
Ready delay t_v max.	12 ms
Ripple max. (% of U_e)	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
Protection degree	IP50

Functional safety

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

BALLUFF

Material

Housing material	Stainless steel
Material sensing surface	LCP

Mechanical data

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

Output/Interface

Switching output	for switching amplifier
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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

