



1) Active surface

- PNP
- NO/NC
- 20.00 mm
- Flush (shielded)
- Connector, M12x1-S04



General attributes

Approvals / Conformity

cULus
CE
EAC
IEC 60947-5-2
IP67
Yes
immune to magnetic DC and AC fields
■ ■
Yes
Yes
II
Yes
Factor 1
520 a

Basic standard
Enclosure Type per IEC 60529
Function indicator
Magnetic field immune
Operating distance marking
Polarity reversal protected
Power indicator
Protection Class
Short circuit protected
Trademark
MTTF

Electrical attributes

Connection type
Eff. operating current I_e
Eff. operating voltage U_e DC
Electrical version
Load capacitance max. (at U_e)
Magnetic field strength
Max. no-load cur. I_o undamped
Minimum operating current I_m
No-load current I_o damped max.
Operating voltage U_B max. DC [V]
Operating voltage U_B min. DC [V]
Rated insulation voltage U_i
Rated short circuit current

Connector
200 mA
24.0 V
DC, direct current
1.000 µF
100 kA/m
15.0 mA
0 mA
20.0 mA
30.0 V
10.0 V
250 VAC
100 A

Ripple max. (% of U_e)
Switching freq. f max. (at U_e)
Switching function
Switching output
Voltage drop static max.

15 %
400 Hz
NO/NC
PNP
2.5 V

Mechanical attributes

Ambient temperature T_a max.
Ambient temperature T_a min.
Assured operating distance S_a
Connector type
Depth
Eff. operating distance S_r
Height (small side)
Housing material
Mech. installation condition
Rated operating distance S_n [mm]
Sensing face material

70 °C
-25 °C
16.00 mm
M12x1-S04
62.0 mm
20.00 mm
40.0 mm
PBT
Flush (shielded)
20.00 mm
PBT

Remarks

The sensor is functional again after the overload has been eliminated.
LED 1: Function; LED 2: Operating voltage
Switching distance specifications and tolerance apply to the shown location of the active surface.

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

Inductive sensor

BES Q40KFU-PAC20A-S04G
BES0216

BALLUFF

sensors worldwide

