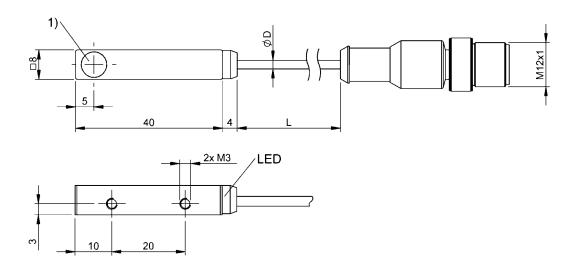
# BES Q08ZC-YPL20B-BP00,3-GS04

Order Code: BES05RW

# BYLLUFF



### 1) Sensing surface













### Basic features

Application Object detection Approval/Conformity CE UKCA cULus WEEE IEC 60947-5-2 Basic standard Operating mode SIO Mode IO-Link Mode

### Display/Operation

Function indicator yes Power indicator no

### Electrical connection

Cable diameter D 2.9 mm Cable length L 0.3 m Connection M12x1-Male, 4-pin, A-coded Connection type Cable with connector, 0.3 m, PUR Polarity reversal protected yes Protection against device mix-ups yes Short-circuit protection yes

#### Electrical data

Load capacitance max. at Ue 1μF No-load current lo max., damped 18 mA No-load current lo max., undamped 13 mA Operating voltage Ub 10...30 VDC Protection class П Rated insulation voltage Ui 250 V AC Rated operating current le 100 mA Rated operating voltage Ue DC 24 V Ready delay tv max. 160 ms Residual current Ir max. 10 uA 15% Ripple max. (% of Ue) Switching frequency 1200 Hz (SIO mode) DC -13 Utilization category Voltage drop static max. 1.2 V

### Environmental conditions

-25...70 °C Ambient temperature Contamination scale 3 EN 60068-2-27, Shock Half-sinus, 30 g<sub>n</sub>, 11 ms EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30 min IP67 IP rating Functional safety MTTF (40 °C) 106 a

10-Link

Subject to change without notice: 271532

IO-Link Profil IDs 0x0001 SSP0

# BES Q08ZC-YPL20B-BP00,3-GS04 Order Code: BES05RW



### Interface

Baud rate38.4 kBaudInterfaceIO-Link 1.1

Interface setting option Factory setting (Reset)

SIO mode/IO-Link mode Teach-In of switchpoints

Process data IN Teaching successfully reply

1 byte

Switching state Target too close/far

Process data OUT 1 byte
Process data cycle min. 3 ms

Switching output 2x PNP/NPN/push-pull NO/NC

### Material

Housing material Zinc, Die casting, Nickel-free

coated

Material jacketPURMaterial sensing surfacePBT

### Mechanical data

Size 8x8
Tightening torque 0.5 Nm

### Range/Distance

Hysteresis H max. (% of Son)16 %Measuring range1...2 mmRated operating distance Sn2 mm

Switching distance marking

Tolerance Sr ±10 %

#### Remarks

The sensor is functional again after the overload has been eliminated. Sensors with IO-Link function are not suitable for series or parallel wiring. For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

## **Connector Drawings**



### Wiring Diagrams

