



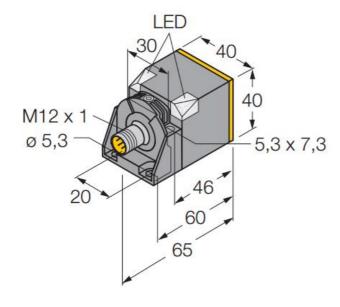
Datasheet

25 mm PNP Block Inductive Proximity Sensor, 200 mA, 10 → 30 V dc, IP68

RS Stock number 208-112



Dimensions: (mm)



- rectangular, height 40 mm
- variable orientation of active face in 5 directions
- Plastic, PBT-GF30-V0
- Corner LEDs with high luminance
 level
- optimum visibility of operatingvoltage display and switching state in any installation position
- factor 1 for all metals
- extended switching distance
- degree of protection IP68
- · magnetic field immune
- extended temperature range
- high switching frequency
- predamping protection through self-compensation
- 3-wire DC, 10...30 VDC
- · normally open, pnp output
- connector, M12 x 1



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Specification

| Rated operating distance Sn | 35 mm |
|-----------------------------|-------|
|-----------------------------|-------|

Mounting condition non-flush, partial embedding possible

Assured switching distance ≤ (0,81 x Sn) mm

Repeatability $\leq 2 \%$ Temperature drift $\leq \pm 10 \%$

≤ ± 15 %, ≤ -25 °C v ≥ +70 °C

Hysteresis 3... 15 %
Ambient temperature -30...+ 85 °C

Operating voltage 10... 30 VDC

 $\begin{array}{lll} \mbox{Residual ripple} & \leq 10 \ \mbox{W U}_{\mbox{ss}} \\ \mbox{DC rated operational current} & \leq 200 \ \mbox{mA} \\ \mbox{No-load current I}_0 & \leq 15 \ \mbox{mA} \\ \mbox{Residual current} & \leq 0.1 \ \mbox{mA} \\ \mbox{Rated insulation voltage} & \leq 0.5 \ \mbox{kV} \\ \end{array}$

Short-circuit protection yes / cyclic
Voltage dip at I_e ≤ 1.8 V

Wire breakage / Reverse polarity protection yes / complete

Output function 3-wire, normally open, pnp

Insulation class

Switching frequency ≤ 0.25 kHz

Housing rectangular, CK40 Dimensions 65 x 40 x 40 mm

variable orientation of active face in 5 direc-

tions

2 x LEDs green

Housing material plastic, PBT-GF30-V0, black Material active area plastic, PA6-GF30-X, yellow

Connection Connector, M12 x 1

Vibration resistance 55 Hz (1 mm) Shock resistance 30g (11 ms)

Degree of protection IP68

Operating voltage display

Display switch state 2 x LED yellow Included in scope of supply BS4-CK40

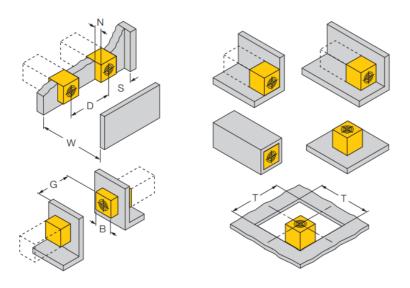


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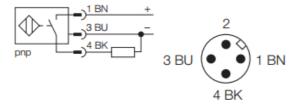
| Mounting instructions | minimum distances | |
|-----------------------|-------------------|--|
| Distance D | 120 mm | |
| Distance W | 105 mm | |
| Distance T | 140 mm | |
| Distance S | 60 mm | |
| Distance G | 210 mm | |
| Distance N | 30 mm | |
| | | |

Width of the active area B

40 mm



Wiring diagram



Functional principle

Inductive sensors are designed for wearfree and non-contact detection of metal objects. Due to a ferrite-less 3-coil system, uprox factor 1 sensors have distinct advantages. They detect all metals at the same switching distance, are magnetic field immune and feature large switching di-

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