



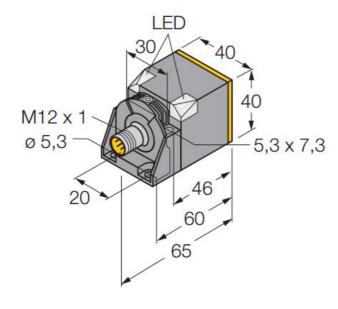
## **Datasheet**

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

RS Stock number 208-190



**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

RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.



## **ENGLISH**

## **Specification**

Rated operating distance Sn	35 mm
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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<sub>e</sub> ≤ 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

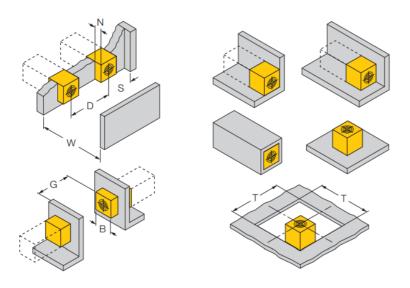


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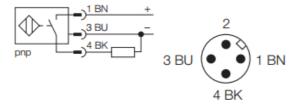
Mounting instructions	minimum distances	
Distance D	120 mm	
Distance W	105 mm	
Distance T	140 mm	
Distance S	60 mm	
Distance G	210 mm	
Distance N	30 mm	

#### 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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