



### Datasheet 25mm PNP Block Inductive Proximity Sensor

RS Stock number 208-263



## **Specifications:**

Rectangular, height 40 mm

Variable orientation of active face in 9 directions

Plastic, PBT-GF30-V0

Corner LEDs with high luminance level

Optimum visibility of operating voltage display and switching state in any installation position

Factor 1 for all metals

Degree of protection IP68

Magnetic field immune

Extended temperature range

High switching frequency

Pre-damping protection through self-compensation

3-wire DC, 10...30 VDC

Normally open, pnp output

Terminal chamber





### Professionally approved products. **Datasheet**

Rated operating distance Sn

Mounting condition non-flush, partial embedding possible

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

Repeatability ≤ 2 % Temperature drift ≤ ± 10 %

≤ ± 15 %, ≤ -25 °C v ≥ +70 °C

10... 30 VDC

Hysteresis 3... 15 %

Ambient temperature -30...+ 85 °C

Operating voltage

Residual ripple ≤ 10 % U<sub>ss</sub> DC rated operational current ≤ 200 mA No-load current Io ≤ 15 mA

Residual current ≤ 0.1 mA Rated insulation voltage ≤ 0.5 kV 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

rectangular, CP40 Housing Dimensions 114 x 40 x 40 mm

variable orientation of active face in 9 direc-

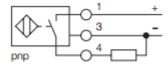
Housing material plastic, PBT-GF30-V0, black Material active area plastic, PA6-GF30-X, yellow

Terminal chamber Connection  $\leq 2.5 \, \text{mm}^2$ Clamping ability Vibration resistance 55 Hz (1 mm) Shock resistance 30g (11 ms) Degree of protection IP68

Operating voltage display

2 x LEDs green Display switch state 2 x LED yellow

#### 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-



# **ENGLISH**

Mounting instructions	minimum distances
Distance D	240 mm

 Distance D
 240 mm

 Distance W
 75 mm

 Distance T
 100 mm

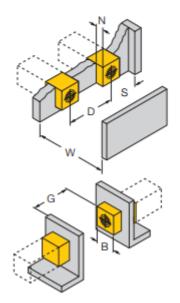
 Distance S
 20 mm

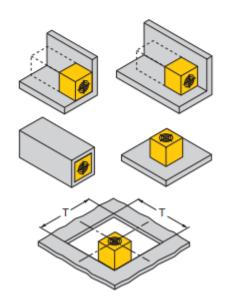
 Distance G
 150 mm

 Distance N
 30 mm

Width of the active area B

40 mm





up to 4-side flush mounting possible 1-side flush mounting: Sr = 22 mm 2-side flush mounting: Sr = 20 mm 3-side flush mounting: Sr = 17 mm 4-side flush mounting: Sr = 13 mm

back-mounting without reduction of the switching distance

recessed mounting with switching distance reduction possible