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Datasheet 25mm PNP Block Inductive Proximity Sensor

RS Stock number 208-263



Specifications:

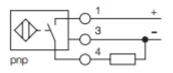
Rectangular, height 40 mm Variable orientation of active face in 9 directions Plastic, PBT-GF30-V0 Corner LEDs with high luminance level Optimum visibility of operating voltage display and switching state in any installation position Factor 1 for all metals Degree of protection IP68 Magnetic field immune Extended temperature range High switching frequency Pre-damping protection through self-compensation 3-wire DC, 10...30 VDC Normally open, pnp output Terminal chamber



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Rated operating distance Sn	25 mm		
Mounting condition Assured switching distance Repeatability	non-flush, partial embedding possible ≤ (0,81 x Sn) mm ≤ 2 %		
		Temperature drift	≤ ± 10 %
		-	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	3 15 %		
Ambient temperature	-30+ 85 °C		
Operating voltage	10 30 VDC		
Residual ripple	≤ 10 % U _{ss}		
DC rated operational current No-load current I ₀ Residual current Rated insulation voltage Short-circuit protection Voltage dip at I _e Wire breakage / Reverse polarity protection Output function Insulation class Switching frequency	 ≤ 200 mA ≤ 15 mA ≤ 0.1 mA ≤ 0.5 kV yes / cyclic ≤ 1.8 V yes / complete 3-wire, normally open, pnp □ ≤ 0.25 kHz 		
		Housing	rectangular, CP40
		Dimensions	114 x 40 x 40 mm
			variable orientation of active face in 9 direc-
			variable orientation of active face in 9 direc- tions
		Housing material	variable orientation of active face in 9 direc- tions plastic, PBT-GF30-V0, black
		Housing material Material active area	variable orientation of active face in 9 direc- tions plastic, PBT-GF30-V0, black plastic, PA6-GF30-X, yellow
		Housing material Material active area Connection	variable orientation of active face in 9 direc- tions plastic, PBT-GF30-V0, black plastic, PA6-GF30-X, yellow Terminal chamber
		Housing material Material active area Connection Clamping ability	variable orientation of active face in 9 direc- tions plastic, PBT-GF30-V0, black plastic, PA6-GF30-X, yellow Terminal chamber ≤ 2.5 mm ²
Housing material Material active area Connection Clamping ability Vibration resistance	variable orientation of active face in 9 direc- tions plastic, PBT-GF30-V0, black plastic, PA6-GF30-X, yellow Terminal chamber ≤ 2.5 mm ² 55 Hz (1 mm)		
Housing material Material active area Connection Clamping ability Vibration resistance Shock resistance	variable orientation of active face in 9 direc- tions plastic, PBT-GF30-V0, black plastic, PA6-GF30-X, yellow Terminal chamber ≤ 2.5 mm ² 55 Hz (1 mm) 30g (11 ms)		
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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 distances.

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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.

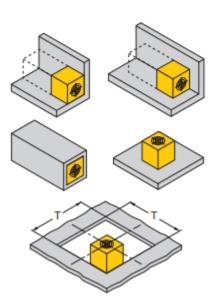


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Mounting instructions	minimum distances	
Distance D	240 mm	
Distance W	75 mm	
Distance T	100 mm	
Distance S	20 mm	
Distance G	150 mm	
Distance N	30 mm	

40 mm

Width of the active area B



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

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