

pro^{ense}® P8 Series Inductive Rectangular Proximity Sensors



8 x 16 mm rectangular – DC

- 7 models available
- Compact 8 x 16 x 4 mm plastic housing
- Axial cable or M8 quick-disconnect models; purchase cable separately
- Complete overload protection
- IP67 rated
- Lifetime warranty



ProSense P8 Series Rectangular DC Inductive Prox Selection Chart								
Part Number	Price	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Drawing Link
P8-AP-1F		1.5 mm [0.06 in]	Flush	N.O.	PNP	M8x1, 3-pin	Diagram 1	PDF
P8-CP-1F		1.5 mm [0.06 in]	Flush	N.C.	PNP	M8x1, 3-pin	Diagram 1	PDF
P8-AN-1F		1.5 mm [0.06 in]	Flush	N.O.	NPN	M8x1, 3-pin	Diagram 2	PDF
P8-CN-1A		1.5 mm [0.06 in]	Flush	N.C.	NPN	3-wire cable, 2m [6.56 ft]	Diagram 2	PDF
P8-AP-2F		2.5 mm [0.10 in]	Non-flush	N.O.	PNP	M8x1, 3-pin	Diagram 1	PDF
P8-CP-2F		2.5 mm [0.10 in]	Non-flush	N.C.	PNP	M8x1, 3-pin	Diagram 1	PDF
P8-AN-2A		2.5 mm [0.10 in]	Non-flush	N.O.	NPN	3-wire cable, 2m [6.56 ft]	Diagram 2	PDF

Wiring diagrams

Diagram 1

PNP Output

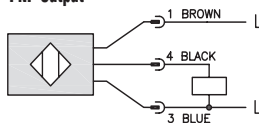
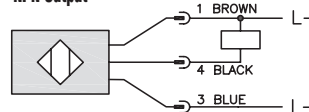
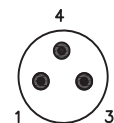


Diagram 2

NPN Output



M8 connector



Warning: These products are not safety sensors and are not suitable for use in personal safety applications.

prosense® P8 Series Inductive Rectangular Specifications

ProSense P8 Series Rectangular DC Inductive Prox Selection Chart						
Part Number	Operating Voltage	Operating (Load) Current	Off-state (Leakage) Current	Voltage Drop	Switching Frequency	Repeat Accuracy
P8-AP-1F	10-30 VDC	100mA	50µA	2.5 V	2500Hz	1.0 %
P8-CP-1F	10-30 VDC	100mA	50µA	2.5 V	2500Hz	1.0 %
P8-AN-1F	5-30 VDC	50mA	50µA	1.1 V	2500Hz	5.0 %
P8-CN-1A	10-30 VDC	100mA	50µA	1.8 V	2500Hz	1.0 %
P8-AP-2F	10-30 VDC	100mA	1µA	2.5 V	3000Hz	3.0 %
P8-CP-2F	10-30 VDC	100mA	1µA	2.5 V	3000Hz	3.0 %
P8-AN-2A	10-30 VDC	100mA	50µA	2.5 V	2500Hz	5.0 %

ProSense P8 Series Rectangular DC Inductive Prox Specifications		
Mounting Type	Flush	Non-flush
Nominal Distance	See Selection Table	
Assured Operating Distance	1.2 mm [0.05 in]	2.2 mm [0.09 in]
Material Correction Factors	See Material Influence Table	
Output Type	See Sensor Selection Chart	
No-load Supply Current	3mA	
Ripple	15%	
Time Delay Before Availability (tv)	20ms	
Reverse Polarity Protection	Yes	
Short-Circuit Protection	Yes	
Operating Temperature	-25 to +70°C [-13 to +158°F]	
Protection Degree (DIN 40050)	IP67	
Indication/Switch Status	Embedded function LED for switch status	
Housing Material	PA 6, GF30 (Nylon 6 Polymer)	
Sensing Face Material	PA 6, GF30 (Nylon 6 Polymer)	
Shock / Vibration	Shock: EN 60068-2-27 Vibration: EN 60068-2-6	
Tightening Torque	0.06 N•m [0.04 lb•ft]	
Weight (cable/M8 connector)	M8 Models 9.07 g [.031 oz] Cabled Models 22.68 g [.8 oz]	
Connections	M8x1, 3-pin 0.30 m [0.98 ft] or cable 2m [6.56 ft] PUR, 28AWG (0.09 mm ²)	
Agency Approvals	CE, cULus, IEC 60947-5-2	

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