## **AC1 Series Inductive Proximity Sensors**



#### Miniature Ø4 mm stainless steel

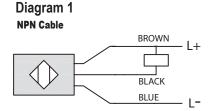
- Smooth barrel
- NPN or PNP, N.O. or N.C.
- Complete overload protection
- IP67 rated

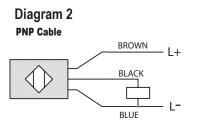
- Stainless steel construction
- Yellow output LED 360 degree visible
- · Lifetime warranty

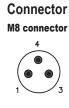


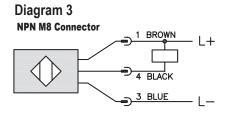
AC1 Series Ø4 mm Inductive Proximity Selection Chart											
Part Number	Price	Sensing Range mm [in]	Mounting	Output State	Logic	Connection	Wiring	Drawing Link			
Standard Distance											
AC1-AN-1A	\$26.50	0.8 [0.03]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	PDF			
AC1-AP-1A	\$26.50	0.8 [0.03]	Flush	N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	<u>PDF</u>			
AC1-AN-1F	\$27.50	0.8 [0.03]	Flush	N.O.	NPN	M8 connector	Diagram 3	<u>PDF</u>			
AC1-AP-1F	\$27.50	0.8 [0.03]	Flush	N.O.	PNP	M8 connector	Diagram 4	PDF			
AC1-CN-1A	\$26.50	0.8 [0.03]	Flush	N.C.	NPN	2m [6.5 ft] axial cable	Diagram 1	PDF			
AC1-CP-1A	\$26.50	0.8 [0.03]	Flush	N.C.	PNP	2m [6.5 ft] axial cable	Diagram 2	<u>PDF</u>			
AC1-CN-1F	\$27.50	0.8 [0.03]	Flush	N.C.	NPN	M8 connector	Diagram 3	PDF			
AC1-CP-1F	\$27.50	0.8 [0.03]	Flush	N.C.	PNP	M8 connector	Diagram 4	<u>PDF</u>			
Extended Distance											
AC1-AN-3A	\$30.50	1.5 [0.06]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	<u>PDF</u>			
AC1-AP-3A	\$30.50	1.5 [0.06]	Flush	N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	<u>PDF</u>			
AC1-AN-3F	\$31.50	1.5 [0.06]	Flush	N.O.	NPN	M8 connector	Diagram 3	<u>PDF</u>			
AC1-AP-3F	\$31.50	1.5 [0.06]	Flush	N.O.	PNP	M8 connector	Diagram 4	<u>PDF</u>			
AC1-CN-3A	\$30.50	1.5 [0.06]	Flush	N.C.	NPN	2m [6.5 ft] axial cable	Diagram 1	<u>PDF</u>			
AC1-CP-3A	\$30.50	1.5 [0.06]	Flush	N.C.	PNP	2m [6.5 ft] axial cable	Diagram 2	<u>PDF</u>			
AC1-CN-3F	\$31.50	1.5 [0.06]	Flush	N.C.	NPN	M8 connector	Diagram 3	<u>PDF</u>			
AC1-CP-3F	\$31.50	1.5 [0.06]	Flush	N.C.	PNP	M8 connector	Diagram 4	<u>PDF</u>			

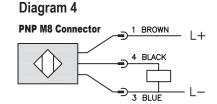
### **Wiring Diagrams**











# **AC1 Series Inductive Proximity Sensors**

AC1 Series Specifications							
Specification	Standard Distance	Extended Distance					
Mounting Type	Flush						
Nominal Sensing Distance	0.8 mm [0.031 in] 1.5 mm [0.06 in]						
Operating Distance	NA						
Material Correction Factors	See the Material influence table						
Output Type	NPN or PNP/N.O. or N.C./3-wire						
Operating Voltage	10 to 30 VDC						
No-load Supply Current	≤ 10mA						
Operating (Load) Current	≤ 100mA						
Off-state (Leakage) Current	≤10 µA						
Voltage Drop	≤ 1.5 V						
Switching Frequency	7kHz						
Differential Travel (% of Nominal Distance)	≤ 10%						
Repeat Accuracy	≤ 5%						
Ripple	≤10%						
Time Delay Before Availability (tv)	≤ 50 ms						
Reverse Polarity Protection	Yes						
Short-Circuit Protection	Yes (auto-resets)						
Operating Temperature	-25 to 70°C [-13 to 158° F]						
Protection Degree (DIN 40050)	IP67						
Indication/Switch Status	Yellow output (on energized)						
Housing Material	Stainless Steel						
Sensing Face Material	Polybutylene Terephthalate						
Shock/Vibration	See Proximity Sensor Terminology						
Tightening Torque	NA						
Weight	30g [1.06 oz] (cable version) 4g [0.14 oz] [M8 connector]						
Connection	2m [6.5 ft] PUR Cable or M8 Connector						
Agency Approvals	CE cULus	E187310					

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

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### **Accessories for 4mm Sensors**

### **Right-angle Mounting Bracket**

Mounting bracket, right-angle, plastic. For use with 4mm sensors.

Accessories for 4mm Sensors									
Part Number Price		Description	Drawing Link	Weight [lb]					
<u>OPT2106</u>	\$8.00	Wenglor mounting bracket, right-angle, plastic. For use with 4mm sensors.	PDF	0.02					



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