AHS Series Inductive Proximity Sensors

Miniature Ø6.5 mm stainless steel – DC



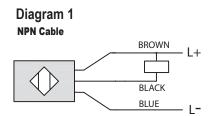
- Smooth barrel
- NPN or PNP, N.O. or N.C.
- Complete overload protection
- IP67-rated

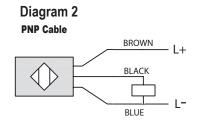
- Stainless steel construction
- Yellow output LED 360 degree visible
- · Lifetime warranty

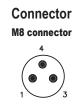


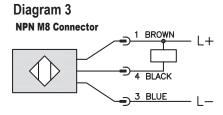
AHS Series Ø6.5 DC Inductive Proximity Selection Chart										
Part Number	Price	Sensing Range mm [in]	Mounting	Output State	Logic	Connection	Wiring	Drawing Link		
Standard Distance										
AHS-AN-1A	\$25.00	1.5 [0.06]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	PDF		
AHS-AP-1A	\$25.00	1.5 [0.06]	Flush	N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	PDF		
AHS-AN-1F	\$26.50	1.5 [0.06]	Flush	N.O.	NPN	M8 connector	Diagram 3	PDF		
AHS-AP-1F	\$26.50	1.5 [0.06]	Flush	N.O.	PNP	M8 connector	Diagram 4	PDF		
AHS-CP-1A	\$25.00	1.5 [0.06]	Flush	N.C.	PNP	2m [6.5 ft] axial cable	Diagram 2	PDF		
AHS-CP-1F	\$26.50	1.5 [0.06]	Flush	N.C.	PNP	M8 connector	Diagram 4	PDF		
Extended Distance										
AHS-AN-3A	\$29.00	2 [0.08]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	PDF		
AHS-AP-3A	\$29.00	2 [0.08]	Flush	N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	PDF		
AHS-AN-3F	\$30.50	2 [0.08]	Flush	N.O.	NPN	M8 connector	Diagram 3	PDF		
AHS-AP-3F	\$30.50	2 [0.08]	Flush	N.O.	PNP	M8 connector	Diagram 4	PDF		
AHS-CP-3A	\$29.00	2 [0.08]	Flush	N.C.	PNP	2m [6.5 ft] axial cable	Diagram 2	PDF		
AHS-CP-3F	\$30.50	2 [0.08]	Flush	N.C.	PNP	M8 connector	Diagram 4	PDF		

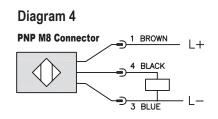
Wiring Diagrams











AHS Series Inductive Proximity Sensors

AHS Series Specifications						
Specification	Standard Distance	Extended Distance				
Mounting Type	Flush					
Nominal Sensing Distance	1.5 mm [0.06 in]	2mm [0.078 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-reset)					
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 6.5 mm Sensors

Right-angle Mounting Bracket

Mounting bracket, right-angle, plastic. For use with 6.5 mm sensors.

Accessories for 6.5 mm Sensors									
Part Number	Price	Description	Drawing Link	Weight [lb]					
<u>OPT2107</u>	\$8.00	Wenglor mounting bracket, right-angle, plastic. For use with 6.5mm sensors.	<u>PDF</u>	0.02					



OPT2107

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