# 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

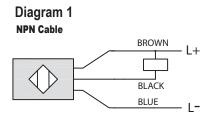
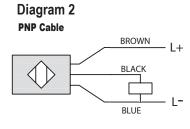
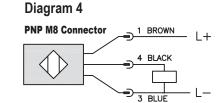


Diagram 3 NPN M8 Connector









## 1-800-633-0405 **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.

1-800-633-0405

# 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.	PDF	0.02					



OPT2107