

# WKM Series Factor 1 Weld-Field Immune Inductive Proximity Sensors



## M12 (12mm)

- Correction Factor (K-Factor) = 1
- Low cost/high performance
- Weld slag resistant coating
- Inductive sensor
- Metal thread M12 x 1 Connector
- Increased sensing range
- Gold-plated contacts
- Electromagnetic field immune
- Flush and Non-flush mounting
- Lifetime warranty

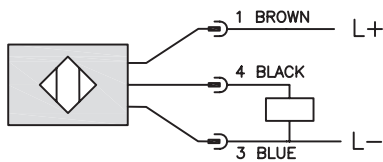


### WKM Series M12 Inductive Proximity Selection Chart

Part Number	Price	Sensing Range	Mounting	Output State	Logic	Voltage	Connection	Wiring	Dimensions
<b>WKM-AP-3H</b>	\$32.00	4mm [0.16 in]	Flush	N.O.	PNP	10 - 30 VDC	4-pin M12 quick-disconnect	Diagram 1	Figure 1
<b>WKM-AP-4H</b>	\$42.50	8mm [0.31 in]	Non-flush						

## Wiring Diagrams

Diagram 1



Connector

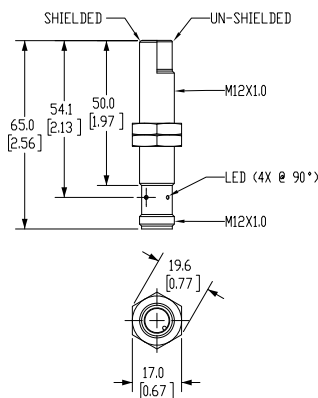
4-pin M12 connector



## Dimensions

mm [inches]

Figure 1



# WKM Series Factor 1 Weld-Field Immune Inductive Proximity Sensors

WKM Series M12 Inductive Proximity Specifications		
Model	<u>WKM-AP-3H</u>	<u>WKM-AP-4H</u>
<b>Mounting Type</b>	Flush	Non-flush
<b>Nominal Sensing Distance</b>	4mm [0.16 in]	8mm [0.31 in]
<b>Operating Distance</b>	0 - 3.24 mm	0 - 6.5 mm
<b>Material Correction Factors</b>	Correction Factor (K-Factor) = 1	
<b>Output Type</b>	N.O.	
<b>Operating Voltage</b>	10 to 30 VDC	
<b>No-load Supply Current</b>	< 20mA	
<b>Operating (Load) Current</b>	100mA	
<b>Off-state Leakage Current</b>	NA	
<b>Voltage Drop</b>	2.5 V	
<b>Switching Frequency</b>	2000Hz	
<b>Differential Travel (% of Nominal Distance)</b>	3 - 15	
<b>Repeat Accuracy</b>	NA	
<b>Ripple</b>	NA	
<b>Time Delay Before Availability (tv)</b>	NA	
<b>Short Circuit Protection</b>	Yes	
<b>Operating Temperature</b>	-40 to 85°C [-40 to 185°F]	-25 to 70°C [-13 to 158°F]
<b>Protection Degree (DIN 40050)</b>	IP65 / IP66 / IP67 / IP68 / IP69K	IP67
<b>LED Indicators</b>	Illuminated when energized	
<b>Housing Material</b>	Brass with anti-spatter ceramic (Polytetrafluoroethylene [PTFE]) coating; LED window: Polyetherimide [PEI]	
<b>Sensing Face Material</b>	active face: Liquid Crystal Polymer [LCP] white	
<b>Shock/Vibration</b>	See <a href="#">Proximity Sensor Terminology</a>	
<b>Weight</b>	0.029 kg	0.036 kg
<b>Connection</b>	4-pin M12 quick-disconnect	
<b>Agency Approvals</b>	cULus E328811, CE	

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