

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

## M12 (12mm)



- Two models available
- Correction Factor (K-Factor) = 1
- Low cost/high performance
- Weld slag resistant coating
- Inductive sensor
- Metal thread M12 x 1 Connector
- Increased sensing range

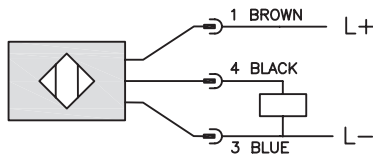
- Gold-plated contacts
- Electromagnetic field immune
- Shielded and unshielded mounting
- Lifetime warranty



WKM Series M12 Inductive Prox Selection Chart									
Part Number	Price	Sensing Range	Housing	Output State	Logic	Voltage	Connection	Wiring	Dimensions
WKM-AP-3H	\$27.00	4mm (0.16 in)	Shielded	NO	PNP	10 - 30 VDC	4-pin M12 quick disconnect	Diagram 1	Figure 1
WKM-AP-4H	\$35.00	8mm (0.31 in)	Unshielded						

## Wiring Diagrams

Diagram 1



## Connector

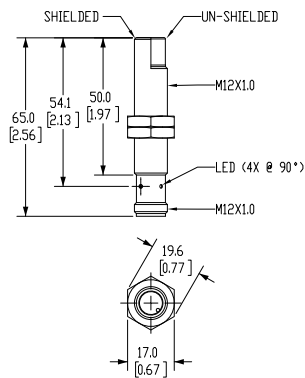
4-pin M12 connector



## Dimensions

mm [inches]

Figure 1



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

Specifications	M12	
<b>Model</b>	WKM-AP-3H	WKM-AP-4H
<b>Mounting Type</b>	Shielded	Unshielded
<b>Nominal Sensing Distance (mm)</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>	NO	
<b>Operating Voltage</b>	10 to 30 VDC	
<b>No-load Supply Current</b>	< 20 mA	
<b>Operating (Load) Current</b>	100 mA	
<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 — 85°C [-40 — 185°F]	-25 — 70°C [-13 — 158°F]
<b>Protection Degree (DIN 40 050)</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	