

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

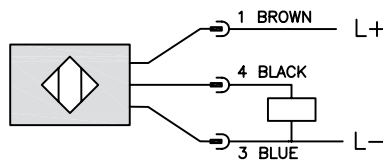


WKM Series M12 Inductive Proximity Selection Chart

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

Wiring Diagrams

Diagram 1



Connector

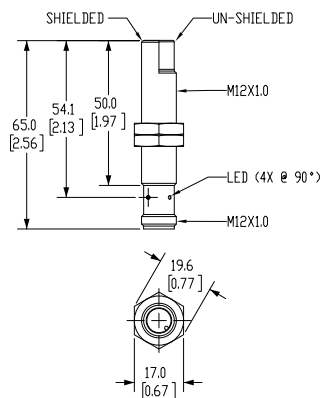
4-pin M12 connector



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