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



## M12 (12mm)

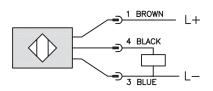
- Correction Factor (K-Factor) = 1
- · Low cost/high performance
- Weld slag resistant coating
- · Inductive sensor
- Metal thread M12 x 1 Connector
- Increased sensing range
- · Gold-plated contacts
- Electromagnetic field immune
- Flush and Non-flush mounting
- · Lifetime warranty



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	Diagram 1	Figure 1
WKM-AP-4H	\$42.50	8mm [0.31 in]	Non-flush	N.O.	FINE	10 - 30 VDC	quick-disconnect	Diagraffi	Figure 1

## **Wiring Diagrams**

### Diagram 1



#### Connector

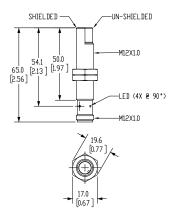
4-pin M12 connector



## **Dimensions**

mm [inches]

Figure 1



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

WKM Series M12 Inductive Proximity Specifications								
Model	WKM-AP-3H	<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 wh	nen 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.