

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



## M18 (18mm)

- 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 or Non-flush mounting
- Lifetime warranty

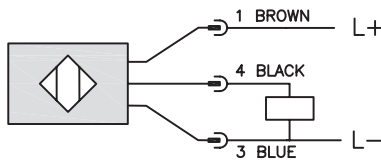


### WKK Series M18 Inductive Proximity Selection Chart

Part Number	Price	Sensing Range	Mounting	Output State	Logic	Voltage	Connection	Wiring	Dimensions
<a href="#"><u>WKK-AP-3H</u></a>	\$39.00	8mm [0.31 in]	Flush	N.O.	PNP	10 - 30 VDC	4-pin M12 quick-disconnect	Diagram 1	Figure 1
<a href="#"><u>WKK-AP-4H</u></a>	\$51.00	12mm [0.47 in]	Non-flush	N.O.	PNP	10 - 30 VDC	4-pin M12 quick-disconnect	Diagram 1	Figure 1

## Wiring Diagrams

Diagram 1



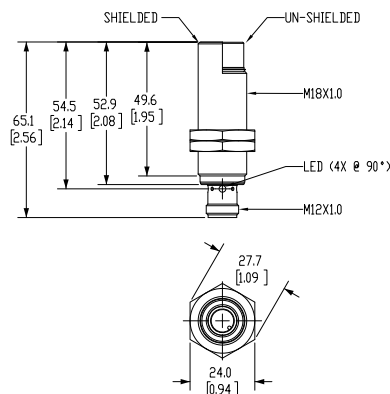
Connector



## Dimensions

mm [inches]

Figure 1



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

WKK Series M18 Inductive Proximity Specifications		
Model	<u>WKK-AP-3H</u>	<u>WKK-AP-4H</u>
Mounting Type	Flush	Non-flush
Nominal Sensing Distance	8mm [0.31 in]	12mm [0.47 in]
Operating Distance	0 - 6.48 mm	0 - 9.7 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] black	
Shock/Vibration	See <a href="#">Proximity Sensor Terminology</a>	
Weight	0.05 kg	0.057 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.