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



### M18 (18mm)

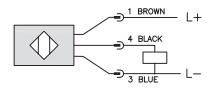
- Correction Factor (K-Factor) = 1
- Low cost/high performance
- Weld slag resistant coating
- Inductive sensor
- Metal thread M12 x 1 Connector
- Increased sensing range
- · Gold-plated contacts
- Electromagnetic field immune
- Flush or Non-flush mounting
- Lifetime warranty



WKK Series M18 Inductive Proximity Selection Chart									
Part Number	Price	Sensing Range	Mounting	Output State	Logic	Voltage	Connection	Wiring	Dimensions
WKK-AP-3H	\$39.00	8mm [0.31 in]	Flush	N.O.	PNP	10 - 30 VDC	4-pin M12 quick-disconnect	Diagram 1	Figure 1
WKK-AP-4H	\$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

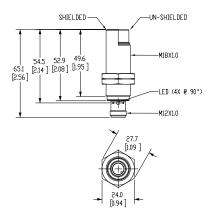
4-pin M12 connector



### **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>	WKK-AP-4H					
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 Proximity Sensor Terminology						
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.