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
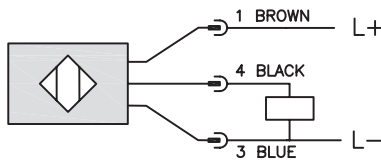- Flush or Non-flush mounting
- Lifetime warranty

NEED CABLES?

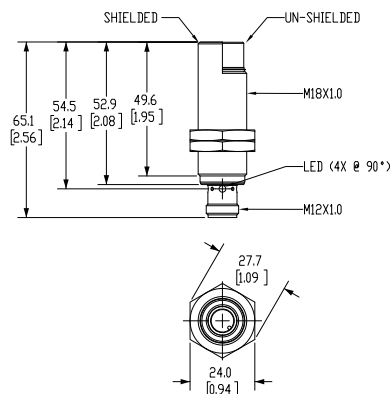| WKK Series M18 Inductive Proximity Selection Chart									
Part Number	*Price*	*Sensing Range*	*Mounting*	*Output State*	*Logic*	*Voltage*	*Connection*	*Wiring*	*Dimensions*
WKK-AP-3H	$39.00	8mm [0.31 in]	Flush	N.O.	PNP	10 - 30 VDC	4-pin M12 quick-disconnect	Diagram 1	Figure 1
WKK-AP-4H	$51.00	12mm [0.47 in]	Non-flush	N.O.	PNP	10 - 30 VDC	4-pin M12 quick-disconnect	Diagram 1	Figure 1

Wiring Diagrams

Diagram 1

1 BROWN — L+
4 BLACK
3 BLUE — L−

Connector

4-pin M12 connector

Dimensions

mm [inches]

Figure 1

SHIELDED — UN-SHIELDED
M18X1.0
65.1 [2.56]
54.5 [2.14]
52.9 [2.08]
49.6 [1.95]
LED (4X @ 90°)
M12X1.0
27.7 [1.09]
24.0 [0.94]

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WKK Series M18 Inductive Proximity Specifications		
Model	WKK-AP-3H	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.