# KSK Series Factor 1 Inductive Proximity Sensors



### M18 (18mm)

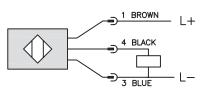
- Correction Factor (K-Factor) = 1
- Low cost/high performance
- Inductive sensor
- Metal thread M12 x 1 Connector
- Increased sensing range
- Gold-plated contacts
- Electromagnetic field immune
- Flush and Non-flush mounting
- Lifetime warranty



KSK Series M18 Inductive Proximity Selection Chart											
Part Number	Price	Sensing Range	Mounting	Output State	Logic	Voltage	Connection	Wiring	Dimensions		
KSK6-AP-3H	\$33.50	8mm [0.31 in]	Flush	- N.O.	PNP	10 - 30 VDC	4-pin M12 quick- disconnect	Diagram 1	Figure 1		
KSK6-AP-4H	\$33.50	12mm [0.47 in]	Non-flush								
<u>KSK-AP-3H</u>	\$33.50	8mm [0.31 in]	Flush						Figure 2		
<u>KSK-AP-4H</u>	\$33.50	15mm [0.59 in]	Non-flush								

## Wiring Diagrams

#### **Diagram 1**



#### Connector



### **Dimensions**

mm [inches]

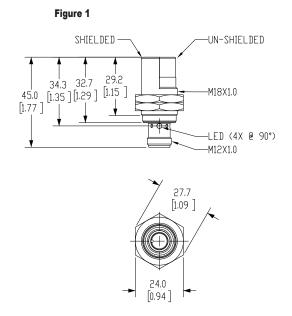
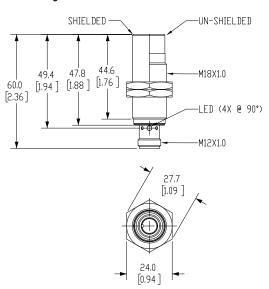


Figure 2



# KSK Series Factor 1 Inductive Proximity Sensors

KSK Series M18 Inductive Proximity Specifications										
Model	KSK6-AP-3H	KSK6-AP-4H	KSK-AP-3H	KSK-AP-4H						
Mounting Type	Flush	Non-flush	Flush	Non-flush						
Nominal Sensing Distance	8mm [0.31in]	12mm [0.47 in]	8mm [0.31in]	15mm [0.59 in]						
Operating Distance	0 - 6.48 mm	0 - 9.72 mm	0 - 6.48 mm	0 - 12.15 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]									
Protection Degree (DIN 40050)	IP65 / IP66 / IP67 / IP68 / IP69K									
LED Indicators	Illuminated when energized									
Housing Material	stainless steel [316L]; LED window: Polyetherimide [PEI]									
Sensing Face Material	active face: Liquid Crystal Polymer [LCP] white									
Shock/Vibration	See Proximity Sensor Terminology									
Weight	0.04 kg	0.035 kg	0.046 kg	0.042 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.