

# KSK Series Factor 1 Inductive Proximity Sensors



## M18 (18mm)

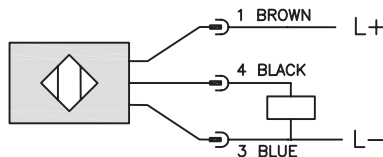
- Correction Factor (K-Factor) = 1
- Low cost/high performance
- Inductive sensor
- Metal thread M12 x 1 Connector
- Increased sensing range
- Gold-plated contacts
- Electromagnetic field immune
- Flush and Non-flush mounting
- Lifetime warranty



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

## Wiring Diagrams

Diagram 1



Connector



## Dimensions

mm [inches]

Figure 1

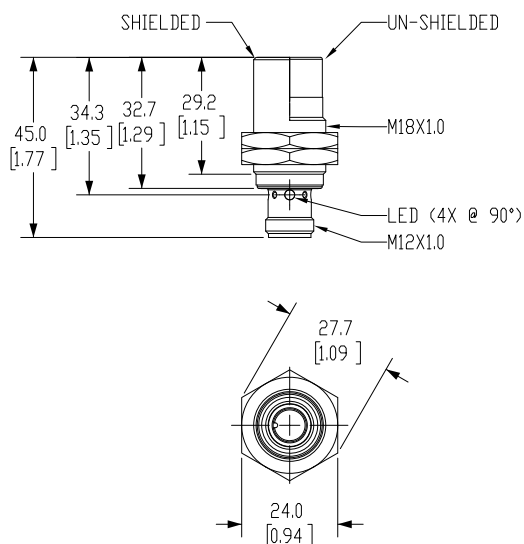
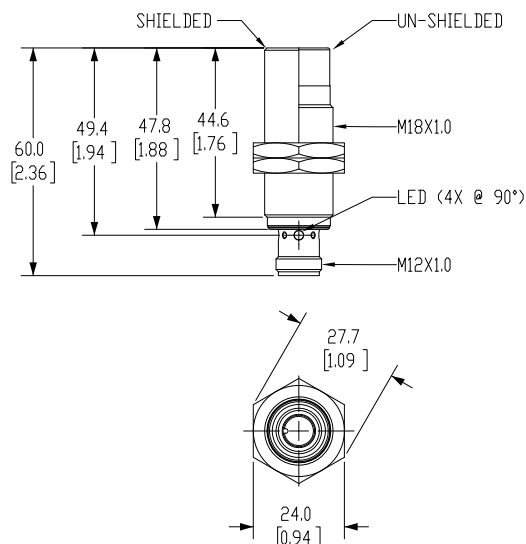


Figure 2



# KSK Series Factor 1 Inductive Proximity Sensors

KSK Series M18 Inductive Proximity Specifications				
Model	<u>KSK6-AP-3H</u>	<u>KSK6-AP-4H</u>	<u>KSK-AP-3H</u>	<u>KSK-AP-4H</u>
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 <a href="#">Proximity Sensor Terminology</a>			
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.