KSM Series Factor 1 Inductive Proximity Sensors



M12 (12mm)

- Correction Factor (K-Factor) = 1
- Low cost/high performance
- Inductive sensor
- Metal thread M12 x 1 Connector

Connector

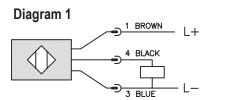
4-pin M12 connector

- Increased sensing range
- Gold-plated contacts
- Electromagnetic field immune
- Flush and Non-flush mounting
- Lifetime warranty



KSM Series M12 Inductive Proximity Selection Chart											
Part Number	Price	Sensing Range	Mounting	Output State	Logic	Voltage	Connection	Wiring	Dimensions		
KSM6-AP-3H	\$28.50	4mm [0.16in]	Flush	- - N.O.	PNP	10 - 30 VDC	4-pin M12 quick- disconnect	Diagram 1	Figure 1		
<u>KSM6-AP-4H</u>	\$28.50	10mm [0.39in]	Non-flush								
KSM-AP-3H	\$28.50	4mm [0.16in]	Flush						Figure 2		
KSM-AP-4H	\$28.50	10mm [0.39in]	Non-flush								

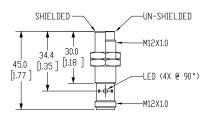
Wiring Diagrams



Dimensions

mm [inches]

Figure 1



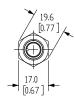
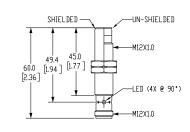


Figure 2





KSM Series Factor 1 Inductive Proximity Sensors

KSM Series	s M12 Inductive	Proximity Specifi	cations				
Models	KSM6-AP-3H	KSM6-AP-4H	KSM-AP-3H	KSM-AP-4H			
Mounting Type	Flush	Non-flush	Flush	Non-flush			
Nominal Sensing Distance	4mm [0.16 in]	10mm [0.39 in]	4mm [0.16 in]	10mm [0.39 in]			
Operating Distance	0 - 3.24 mm	0 - 8.10 mm	0 - 3.24 mm	0 - 8.10 mm			
Material Correction Factors	Correction Factor (K-Factor) = 1						
Output Type	N.O.						
Operating Voltage	10 to 30 VDC						
No-load Supply Current	< 20 mA						
Operating (Load) Current	100 mA						
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	0.026 kg	0.024 kg	0.029 kg	0.027 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.