# **KST Series Factor 1 Inductive Proximity Sensors**



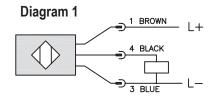
### M30 (30mm)

- 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



KST Series M30 Inductive Proximity Selection Chart										
Part Number	Price	Sensing Range	Mounting	Output State	Logic	Voltage	Connection	Wiring	Dimensions	
KST6-AP-3H	\$41.50	15mm [0.59 in]	Flush	N.O.	PNP	10 - 30 VDC	4-pin M12 quick-disconnect	Diagram 1	Figure 1	
KST-AP-3H	\$41.50	15mm [0.59 in]	Flush						Figure 2	
KST-AP-4H	\$41.50	30mm [1.18 in]	Non-flush							

## **Wiring Diagrams**



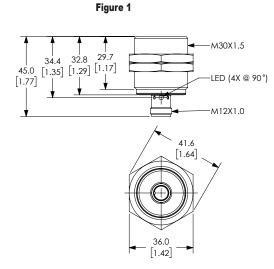
#### Connector

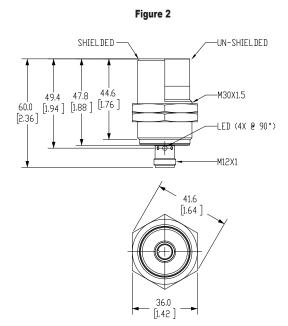
4-pin M12 connector



### **Dimensions**

mm [inches]





# **KST Series Factor 1 Inductive Proximity Sensors**

KST Series M30 Inductive Proximity Specifications								
Models	<u>KST6-AP-3H</u>	KST-AP-3H	KST-AP-4H					
Mounting Type	Flu	Non-flush						
Nominal Sensing Distance	15mm [	30mm [1.18 in]						
Operating Distance	0 - 12.	0 - 24.30 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	0.077 kg	0.093 kg	0.08 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.

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