

# KST Series Factor 1 Inductive Proximity Sensors



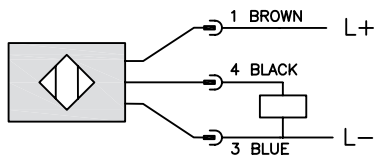
## M30 (30mm)

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

KST Series M30 Inductive Prox Selection Chart									
Part Number	Price	Sensing Range	Housing	Output State	Logic	Voltage	Connection	Wiring	Dimensions
<b>KST6-AP-3H</b>	\$34.50	15mm (0.59 in)	Shielded	NO	PNP	10 - 30 VDC	4-pin M12 quick disconnect	Diagram 1	Figure 1
<b>KST-AP-3H</b>	\$34.50	15mm (0.59 in)	Shielded						Figure 2
<b>KST-AP-4H</b>	\$34.50	30mm (1.18 in)	Unshielded						

## Wiring Diagrams

Diagram 1



## Connector

4-pin M12 connector



## Dimensions

mm [inches]

Figure 1

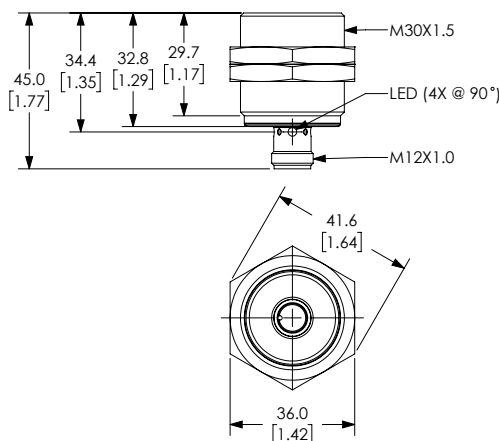
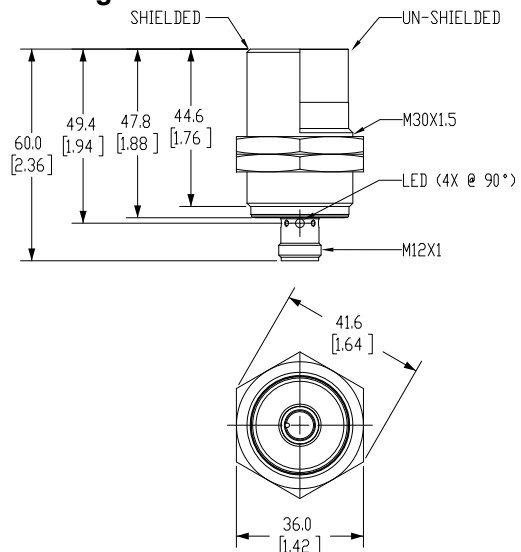


Figure 2



# KST Series Factor 1 Inductive Proximity Sensors

Specifications	M30		
<b>Models</b>	KST6-AP-3H	KST-AP-3H	KST-AP-4H
<b>Mounting Type</b>	Shielded		Unshielded
<b>Nominal Sensing Distance (mm)</b>	15mm (0.59 in)		30mm (1.18 in)
<b>Operating Distance</b>	0 - 12.15 mm		0 - 24.30 mm
<b>Material Correction Factors</b>	Correction Factor (K-Factor) = 1		
<b>Output Type</b>	NO		
<b>Operating Voltage</b>	10 to 30 VDC		
<b>No-load Supply Current</b>	< 20 mA		
<b>Operating (Load) Current</b>	100 mA		
<b>Off-state Leakage Current</b>	NA		
<b>Voltage Drop</b>	< 2.5 V		
<b>Switching Frequency</b>	2000Hz		
<b>Differential Travel (% of Nominal Distance)</b>	3 - 15		
<b>Repeat Accuracy</b>	NA		
<b>Ripple</b>	NA		
<b>Time Delay Before Availability (tv)</b>	NA		
<b>Short Circuit Protection</b>	Yes		
<b>Operating Temperature</b>	-40 — 85 °C [-40 — 185 °F]		
<b>Protection Degree (DIN 40 050)</b>	IP65 / IP66 / IP67 / IP68 / IP69K		
<b>LED Indicators</b>	Illuminated when energized		
<b>Housing Material</b>	stainless steel (316L); LED window: Polyetherimide (PEI)		
<b>Sensing Face Material</b>	active face: Liquid Crystal Polymer (LCP) white		
<b>Shock/Vibration</b>	See <a href="#">Proximity Sensor Terminology</a> .		
<b>Weight</b>	0.077 kg	0.093 kg	0.08 kg
<b>Connection</b>	4-pin M12 quick disconnect		
<b>Agency Approvals</b>	cULus E328811, CE		