

# KSE Series Factor 1 Inductive Proximity Sensors

## M8 (8mm)



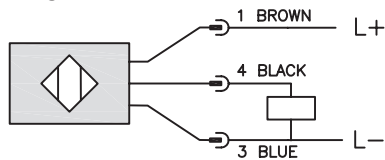
- Correction Factor (K-Factor) = 1
- Low cost/high performance
- 40mm housing length
- Inductive sensor
- Metal thread M8 x 1 Connector
- Increased sensing range
- Gold-plated contacts
- Electromagnetic field immune
- Flush and Non-flush mounting
- Lifetime warranty



KSE Series M8 Inductive Proximity Selection Chart									
Part Number	Price	Sensing Range	Mounting	Output State	Logic	Voltage	Connection	Wiring	Dimensions
<a href="#">KSE-AP-3F</a>	\$28.50	3mm [0.11 in]	Flush	N.O.	PNP	10-30 VDC	3-pin M8 quick-disconnect	Diagram 1	Figure 1
<a href="#">KSE-AP-4F</a>	\$28.50	6mm [0.24 in]	Non-flush						

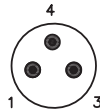
## Wiring Diagrams

Diagram 1



Connector

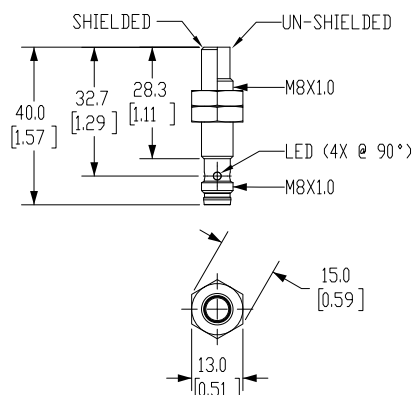
M8 connector



## Dimensions

mm [inches]

Figure 1



# KSE Series Factor 1 Inductive Proximity Sensors

KSE Series M8 Inductive Proximity Specifications		
Model	<i>KSE-AP-3F</i>	<i>KSE-AP-4F</i>
<b>Mounting Type</b>	Flush	Non-flush
<b>Nominal Sensing Distance</b>	3mm [0.12 in]	6mm [0.24 in]
<b>Operating Distance</b>	0 - 2.43 mm	0 - 4.86 mm
<b>Material Correction Factors</b>	Correction Factor (K-Factor) = 1	
<b>Output Type</b>	N.O.	
<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 to 85°C [-40 to 185°F]	
<b>Protection Degree (DIN 40050)</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>	0.017 kg	
<b>Connection</b>	3-pin M8 quick-disconnect	
<b>Agency Approvals</b>	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.