# WSK Series Weld Slag Resistant Inductive Proximity Sensors



### M18 (18mm)

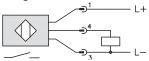
- Low cost/high performance
- Weld slag resistant coating
- Inductive sensor
- Full metal housing
- · Increased sensing range
- Gold-plated contacts
- Flush mounting
- · Lifetime warranty



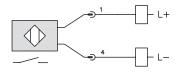
WSK Series M18 Inductive Proximity Selection Chart										
Part Number	Price	Sensing Range	Mounting	Output State	Logic	Voltage	Connection	Wiring	Dimensions	
WSK-AP-3H	\$43.50	8mm [0.31 in]	Flush	N.O.	PNP	10 - 30 VDC	4-pin M12 quick-disconnect	Diagram 1	Figure 1	
<u>WSK-A0-3E</u>	Retired	6mm [0.24 in]			PNP/NPN	10 - 36 VDC	4-pin M12 with 0.3 m cable	Diagram 2	Figure 3	

## **Wiring Diagrams**

#### Diagram 1



#### Diagram 2



#### **Connectors**

4-pin M12 PNP

4-pin M12 0.3m





#### **Dimensions**

mm [inches]

Figure 1

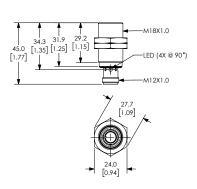


Figure 2

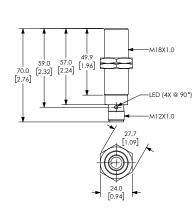
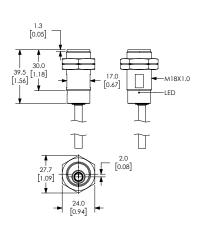


Figure 3



## WSK Series Weld Slag Resistant Inductive Proximity Sensors

WSK Series M18 Inductive Proximity Specifications							
Model	WSK-AP-3H	<u>WSK-A0-3E</u>					
Mounting Type	Flush						
Nominal Sensing Distance	8mm [0.31 in]	6mm [0.24 in]					
Operating Distance	0 - 6.48 mm	0 - 4.0 mm					
Material Correction Factors	See the Material Influence table						
Output Type	N.O.						
Operating Voltage	10 to 30 VDC	10 to 36 VDC					
No-load Supply Current	< 10mA	NA					
Operating (Load) Current	<100mA						
Off-state Leakage Current	NA	< 0.6 mA					
Voltage Drop	< 2.5 V						
Switching Frequency	2Hz	50Hz					
Differential Travel (% of Nominal Distance)	3 - 15	1 - 20					
Repeat Accuracy	NA NA						
Ripple	NA						
Time Delay Before Availability (tv)	NA						
Short Circuit Protection	Yes	Pulsed					
Operating Temperature	-40 to 85°C [-40 to 185°F]	-25 to 70°C [-13 to 158°F]					
Protection Degree (DIN 40050)	IP65 / IP66 / IP67 / IP68 / IP69K	IP67					
LED Indicators	Illuminated when energized						
Housing Material	Stainless steel 316L / 1.4404 with anti-spatter ceramic (Polytetrafluoroethylene [PTFE]) coating						
Sensing Face Material	active face: stainless steel 316L 1.4404 anti-spatter						
Shock/Vibration	See Proximity Sensor Terminology						
Weight	0.046 kg	0.067 kg					
Connection	4-pin M12 quick-disconnect	PUR cable / 0.3 m; 2 x 0.5 mm²; with 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.