# WSE Series Weld Slag Resistant Inductive Proximity Sensors



## M8 (8mm)

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

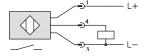


WSE Series M8 Inductive Proximity Selection Chart												
Part Number	Price	Sensing Range	Mounting	Output State	Logic	Voltage	Connection	Wiring	Dimensions			
WSE-AP-3H	\$52.00	- 2mm [0.08 in]	Flush	N.O.	PNP	- 10 - 36 VDC -	4-pin M12 quick-disconnect	Diagram 1	Figure 1			
WSE-AN-3H	\$57.00				NPN			Diagram 2	Figure 1			
WSE-A0-3E	\$57.00				PNP/NPN		4-pin M12 with 0.3 m cable	Diagram 3	Figure 2			
<u>WSE-A0-3A</u>	\$55.00						3m axial cable	Diagram 4				

## **Wiring Diagrams**

### Diagram 1

Diagram 3





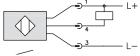
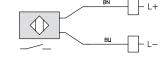


Diagram 4



#### Connector

4-pin M12



4-pin M12 0.3m



### **Dimensions**

mm [inches]

Figure 1

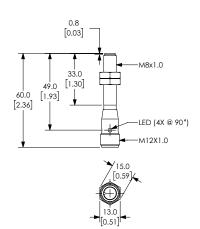
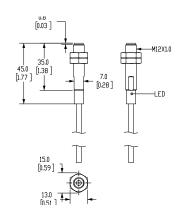


Figure 2



## WSE Series Weld Slag Resistant Inductive Proximity Sensors

WSE Series M8 Inductive Proximity Specifications										
Model	WSE-AP-3H	WSE-AN-3H	<u>WSE-A0-3E</u>	<u>WSE-AO-3A</u>						
Mounting Type	Flush									
Nominal Sensing Distance	2mm [0.08 in]									
Operating Distance	0 - 1.6 mm									
Material Correction Factors		See the Material Influence table								
Output Type	N.O.									
Operating Voltage										
No-load Supply Current	< 20 mA		NA							
Operating (Load) Current	100mA									
Off-state Leakage Current	NA		< 0.75 mA							
Voltage Drop	< 2.5 V									
Switching Frequency	100Hz		150Hz							
Differential Travel (% of Nominal Distance)	1-15		1-20							
Repeat Accuracy	NA NA									
Ripple	NA									
Time Delay Before Availability (tv)	NA									
Short Circuit Protection	Yes									
Operating Temperature	0 to 85°C [32 to	185°F]	-25 to 70°C [-13 to 158°F]							
Protection Degree (DIN 40050)	IP67 / IP68	}	IP67							
LED Indicators		Illuminated	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	0.021 kg	0.021 kg	0.035 kg	0.070 kg						
Connection	4-pin M12 quick-dis	sconnect	PUR cable / 0.3m; 2x0.5 mm²; with 4-pin M12 quick- disconnect	PUR cable / 3m; 2x0.5 mm²						
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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