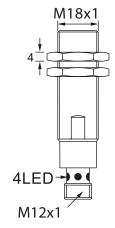
# Weld Field Immune Proximity Sensor



### **Dimensions**



Body Length (mm) 81

Note: The product images shown may change over time as products are updated.

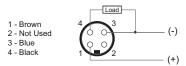
#### Part Number

#### ECS1-1808P-ARU4-PTFE-120C-WFI

#### Features

Inductive Proximity Sensors are used in a wide variety of manufacturing operations where a metal target needs to be sensed. HTM Sensors inductive proximity sensors have a Lifetime Warranty, a CSA or UL approval, and a huge inventory for sameday shipping. For tougher applications where the sensors need more range to stay out of harm's way, or to withstand high temperatures, weld spatter, chemical exposure, oil or other rough environments, HTM Sensors has the widest range of proximity sensors on the market.

## Connection





## **Technical Data**

Body StyleCylindricalSensor Housing Material1-Piece Stainless SteelSensor Face MaterialStainless SteelMounting StyleShieldedDiameter18 mm ThreadedSensing Range:8 mm RangeOutput Type:DC 3-Wire, PNP OutputOutput Type:DC 3-Wire, PNP OutputOutput FunctionNormally Open OutputConnector TypeM12x1 Quick-ConnectOperating Voltage10-30 VDCSwitching Frequency≤5 HzOperating Temperature-25 °C - +120 °CCurrent Consumption1P67EMC Rating:IEC 60497-5-2 Part 7.4.1&7.4.2Short Circuit ProtectedYesReverse Polarity ProtectedYesResponse Time0.1 ms/0.1 msHysteresis<15%(Sr)Overload Trip Point220 mAWeld Spatter ResistantYes - Black SpatterGuard™Body Lenoth (mm)81		
Sensor Face MaterialStainless SteelMounting StyleShieldedDiameter18 mm ThreadedSensing Range:8 mm RangeOutput Type:DC 3-Wire, PNP OutputOutput FunctionNormally Open OutputConnection4-Pin ConnectorConnector TypeM12x1 Quick-ConnectOperating Voltage10-30 VDCSwitching Frequency≤5 HzOperating Temperature-25 °C - +120 °CCurrent ConsumptionIP67EMC RatingRFI>3V/m / EFT>1kV / ESD>4Kv (contact)Shock Rating:IEC 60497-5-2 Part 7.4.1&7.4.2Short Circuit ProtectedYesResponse Time0.1 ms/0.1 msHysteresis<15%(Sr)	Body Style	Cylindrical
Mounting StyleShieldedDiameter18 mm ThreadedSensing Range:8 mm RangeOutput Type:DC 3-Wire, PNP OutputOutput FunctionNormally Open OutputConnection4-Pin ConnectorConnector TypeM12x1 Quick-ConnectOperating Voltage10-30 VDCSwitching Frequency≤5 HzOperating Temperature-25 °C - +120 °CCurrent ConsumptionIP67EMC RatingIEC 60497-5-2 Part 7.4.1&7.4.2Short Circuit ProtectedYesReverse Polarity ProtectedYesResponse Time0.1 ms/0.1 msHysteresis<15%(Sr)	Sensor Housing Material	1-Piece Stainless Steel
Diameter18 mm ThreadedDiameter18 mm RangeSensing Range:8 mm RangeOutput Type:DC 3-Wire, PNP OutputOutput FunctionNormally Open OutputConnector4-Pin ConnectorConnector TypeM12x1 Quick-ConnectOperating Voltage10-30 VDCSwitching Frequency≤5 HzOperating Temperature-25 °C - +120 °CCurrent Consumption<10 mA	Sensor Face Material	Stainless Steel
Sensing Range:8 mm RangeOutput Type:DC 3-Wire, PNP OutputOutput FunctionNormally Open OutputConnection4-Pin ConnectorConnector TypeM12x1 Quick-ConnectOperating Voltage10-30 VDCSwitching Frequency<5 Hz	Mounting Style	Shielded
Output Type:DC 3-Wire, PNP OutputOutput FunctionNormally Open OutputConnection4-Pin ConnectorConnector TypeM12x1 Quick-ConnectOperating Voltage10-30 VDCSwitching Frequency<5 Hz	Diameter	18 mm Threaded
Output FunctionNormally Open OutputConnection4-Pin ConnectorConnector TypeM12x1 Quick-ConnectOperating Voltage10-30 VDCSwitching Frequency≤5 HzOperating Temperature-25 °C - +120 °CCurrent Consumption<10 mA	Sensing Range:	8 mm Range
Connection4-Pin ConnectorConnector TypeM12x1 Quick-ConnectOperating Voltage10-30 VDCSwitching Frequency≤5 HzOperating Temperature-25 °C - +120 °CCurrent Consumption<10 mA	Output Type:	DC 3-Wire, PNP Output
Connector TypeM12x1 Quick-ConnectOperating Voltage10-30 VDCSwitching Frequency≤5 HzOperating Temperature-25 °C - +120 °CCurrent Consumption<10 mA	Output Function	Normally Open Output
Operating Voltage10-30 VDCSwitching Frequency≤5 HzOperating Temperature-25 °C - +120 °CCurrent Consumption<10 mA	Connection	4-Pin Connector
Switching Frequency≤5 HzOperating Temperature-25 °C - +120 °CCurrent Consumption<10 mA	Connector Type	M12x1 Quick-Connect
Operating Temperature-25 °C - +120 °CCurrent Consumption<10 mA	Operating Voltage	10-30 VDC
Current Consumption<10 mAIP Rating:IP67EMC RatingRFI>3V/m / EFT>1kV / ESD>4Kv (contact)Shock Rating:IEC 60497-5-2 Part 7.4.1&7.4.2Short Circuit ProtectedYesReverse Polarity ProtectedYesResponse Time0.1 ms/0.1 msHysteresis<15% (Sr)	Switching Frequency	≤5 Hz
IP Rating:IP67EMC RatingRFI>3V/m / EFT>1kV / ESD>4Kv (contact)Shock Rating:IEC 60497-5-2 Part 7.4.1&7.4.2Short Circuit ProtectedYesReverse Polarity ProtectedYesResponse Time0.1 ms/0.1 msHysteresis<15%(Sr)	Operating Temperature	-25 °C - +120 °C
EMC RatingRFI>3V/m / EFT>1kV / ESD>4Kv (contact)Shock Rating:IEC 60497-5-2 Part 7.4.1&7.4.2Short Circuit ProtectedYesReverse Polarity ProtectedYesResponse Time0.1 ms/0.1 msHysteresis<15%(Sr)	Current Consumption	<10 mA
Shock Rating:IEC 60497-5-2 Part 7.4.1&7.4.2Short Circuit ProtectedYesReverse Polarity ProtectedYesResponse Time0.1 ms/0.1 msHysteresis<15%(Sr)	IP Rating:	IP67
Short Circuit ProtectedYesReverse Polarity ProtectedYesResponse Time0.1 ms/0.1 msHysteresis<15%(Sr)	EMC Rating	RFI>3V/m / EFT>1kV / ESD>4Kv (contact)
Reverse Polarity ProtectedYesResponse Time0.1 ms/0.1 msHysteresis<15%(Sr)	Shock Rating:	IEC 60497-5-2 Part 7.4.1&7.4.2
Response Time0.1 ms/0.1 msHysteresis<15%(Sr)	Short Circuit Protected	Yes
Hysteresis<15%(Sr)Overload Trip Point220 mAWeld Field ImmuneYesWeld Spatter ResistantYes - Black SpatterGuard™	Reverse Polarity Protected	Yes
Overload Trip Point220 mAWeld Field ImmuneYesWeld Spatter ResistantYes - Black SpatterGuard™	Response Time	0.1 ms/0.1 ms
Weld Field ImmuneYesWeld Spatter ResistantYes - Black SpatterGuard™	Hysteresis	<15%(Sr)
Weld Spatter Resistant Yes - Black SpatterGuard™	Overload Trip Point	220 mA
	Weld Field Immune	Yes
Body Length (mm) 81	Weld Spatter Resistant	Yes - Black SpatterGuard™
	Body Length (mm)	81



In the USA: 1889 Maryland Ave., Niagara Falls, NY 14305 In Canada: 3419 Mainway, Burlington, ON L7M 1A9 Toll Free: 1-800-644-1756 • Fax: 888-283-2127 service@htmsensors.com

htmsensors.com