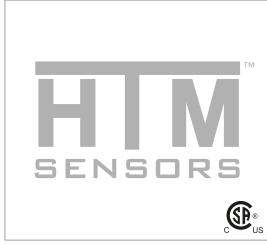
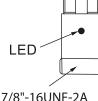
# **Inductive Metal Face Proximity Sensor**



**Dimensions** 



M18x1

Body Length (mm) 96

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

### Part Number

#### FCS2-1808C-BZU4-FE

## 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

SENSORS





Technical DataBody StyleCylindricalSensor Housing MaterialStainless Steel SUS303Sensor Face Material1-Piece Stainless SteelMounting StyleUnshieldedDiameter18 mm ThreadedSensing Range:8 mm RangeOutput Type:DC 2-Wire OutputOutput Sensing Range1-60 VDCSwitching Frequency500 HzOperating Temperature-25 °C - +70 °CCurrent Consumption-IP Rating:IP68EMC RatingRFI>3V/m / EFT>1KV / ESD>4Kv (contact)Shock Rating:IEC 60497-5-2 Part 7.4.1&7.4.2Short Circuit ProtectedYesReverse Polarity ProtectedYesMax Current100 mALeakage Current-Surge Current-Surge Current-Short Fibel ImmuneNoWeld Fjeld ImmuneNoWeld Spatter ResistantNoWeld Spatter ResistantNoWeld Spatter ResistantNo	7/8"-160	ĴNF-2A
Sensor Housing MaterialStainless Steel SUS303Sensor Face Material1-Piece Stainless SteelMounting StyleUnshieldedDiameter18 mm ThreadedSensing Range:8 mm RangeOutput Type:DC 2-Wire OutputOutput FunctionNormally Closed OutputConnection4-Pin ConnectorConnector Type10-60 VDCSwitching Frequency500 HzOperating Temperature-25 °C - +70 °CCurrent Consumption-IP Rating:IP68EMC RatingKFI>3V/m / EFT>1kV / ESD>4Kv (contact)Shock Rating:16C 60497-5-2 Part 7.4.1&7.4.2Short Circuit ProtectedYesReverse Polarity ProtectedYesMax Current0.0 mALeakage Current-Surge Current-Response Time0.5 ms/0.5 msHysteresis<15%(Sr)	Technical Data	
Sensor Face Material1-Piece Stainless SteelMounting StyleUnshieldedDiameter18 mm ThreadedSensing Range:8 mm RangeOutput Type:DC 2-Wire OutputOutput Type:DC 2-Wire OutputOutput FunctionNormally Closed OutputConnection4-Pin ConnectorConnector TypeMini Quick-ConnectOperating Voltage10-60 VDCSwitching Frequency500 HzOperating Temperature-25 °C - +70 °CCurrent Consumption-IP Rating:IP68EMC RatingRFI>3V/m / EFT>1kV / ESD>4Kv (contact)Shock Rating:IEC 60497-5-2 Part 7.4.187.4.2Short Circuit ProtectedYesMax Current100 mALeakage Current-Response Time0.5 ms/0.5 msHysteresis<15%(Sr)	Body Style	Cylindrical
Mounting StyleUnshieldedDiameter18 mm ThreadedSensing Range:8 mm RangeOutput Type:DC 2-Wire OutputOutput Type:DC 2-Wire OutputOutput FunctionNormally Closed OutputConnection4-Pin ConnectorConnector TypeMini Quick-ConnectOperating Voltage10-60 VDCSwitching Frequency500 HzOperating Temperature-25 °C - +70 °CCurrent Consumption-IP Rating:IP68EMC RatingRFI>3V/m / EFT>1kV / ESD>4Kv (contact)Shock Rating:IEC 60497-5-2 Part 7.4.1&7.4.2Short Circuit ProtectedYesReverse Polarity ProtectedYesMax Current100 mALeakage Current-Surge Current-No-Weld Field ImmuneNoWeld Spatter ResistantNo	Sensor Housing Material	Stainless Steel SUS303
Diameter18 mm ThreadedDiameter8 mm RangeOutput Type:DC 2-Wire OutputOutput Type:DC 2-Wire OutputOutput FunctionNormally Closed OutputConnection4-Pin ConnectorConnector TypeMini Quick-ConnectOperating Voltage10-60 VDCSwitching Frequency500 HzOperating Temperature-25 °C - +70 °CCurrent Consumption-IP Rating:IP68EMC RatingRFI>3V/m / EFT>1kV / ESD>4Kv (contact)Shock Rating:IEC 60497-5-2 Part 7.4.1&7.4.2Short Circuit ProtectedYesReverse Polarity ProtectedYesMax Current100 mALeakage Current-Surge Current-No-Veld Field ImmuneNoWeld Spatter ResistantNo	Sensor Face Material	1-Piece Stainless Steel
Sensing Range:8 mm RangeOutput Type:DC 2-Wire OutputOutput FunctionNormally Closed OutputConnection4-Pin ConnectorConnector TypeMini Quick-ConnectOperating Voltage10-60 VDCSwitching Frequency500 HzOperating Temperature-25 °C - +70 °CCurrent Consumption-IP Rating:IP68EMC RatingRFI>3V/m / EFT>1kV / ESD>4Kv (contact)Shock Rating:IEC 60497-5-2 Part 7.4.1&7.4.2Short Circuit ProtectedYesReverse Polarity ProtectedYesMax Current100 mALeakage Current-Surge Current-Short STime0.5 ms/0.5 msHysteresis<15%(Sr)	Mounting Style	Unshielded
Output Type:DC 2-Wire OutputOutput FunctionNormally Closed OutputConnection4-Pin ConnectorConnector TypeMini Quick-ConnectOperating Voltage10-60 VDCSwitching Frequency500 HzOperating Temperature-25 °C - +70 °CCurrent Consumption-IP Rating:IP68EMC RatingRFI>3V/m / EFT>1kV / ESD>4Kv (contact)Shock Rating:IEC 60497-5-2 Part 7.4.1&7.4.2Short Circuit ProtectedYesMax Current100 mALeakage Current-Surge Current0.5 ms/0.5 msHysteresis<15%(Sr)	Diameter	18 mm Threaded
Output FunctionNormally Closed OutputConnection4-Pin ConnectorConnector TypeMini Quick-ConnectOperating Voltage10-60 VDCSwitching Frequency500 HzOperating Temperature-25 °C - +70 °CCurrent Consumption-IP Rating:IP68EMC RatingRFI>3V/m / EFT>1kV / ESD>4Kv (contact)Shock Rating:IEC 60497-5-2 Part 7.4.1&7.4.2Short Circuit ProtectedYesReverse Polarity ProtectedYesMax Current100 mALeakage Current-Response Time0.5 ms/0.5 msHysteresis<15%(Sr)	Sensing Range:	8 mm Range
Connection4-Pin ConnectorConnector TypeMini Quick-ConnectOperating Voltage10-60 VDCSwitching Frequency500 HzOperating Temperature-25 °C - +70 °CCurrent Consumption-IP Rating:IP68EMC RatingRFI>3V/m / EFT>1kV / ESD>4Kv (contact)Shock Rating:IEC 60497-5-2 Part 7.4.187.4.2Short Circuit ProtectedYesReverse Polarity ProtectedYesMax Current100 mALeakage Current-Shore STime0.5 ms/0.5 msHysteresis<15% (Sr)	Output Type:	DC 2-Wire Output
Connector TypeMini Quick-ConnectOperating Voltage10-60 VDCSwitching Frequency500 HzOperating Temperature-25 °C - +70 °CCurrent Consumption-IP Rating:IP68EMC RatingRFI>3V/m / EFT>1kV / ESD>4Kv (contact)Shock Rating:IEC 60497-5-2 Part 7.4.1&7.4.2Short Circuit ProtectedYesReverse Polarity ProtectedYesMax Current100 mALeakage Current-Surge Current0.5 ms/0.5 msHysteresis<15%(Sr)	Output Function	Normally Closed Output
Operating Voltage10-60 VDCSwitching Frequency500 HzOperating Temperature-25 °C – +70 °CCurrent Consumption-IP Rating:IP68EMC RatingRFI>3V/m / EFT>1kV / ESD>4Kv (contact)Shock Rating:IEC 60497-5-2 Part 7.4.1&7.4.2Short Circuit ProtectedYesReverse Polarity ProtectedYesMax Current100 mALeakage Current<0.8 mA	Connection	4-Pin Connector
Switching Frequency500 HzOperating Temperature-25 °C - +70 °CCurrent Consumption-IP Rating:IP68EMC RatingRFI>3V/m / EFT>1kV / ESD>4Kv (contact)Shock Rating:IEC 60497-5-2 Part 7.4.1&7.4.2Short Circuit ProtectedYesReverse Polarity ProtectedYesMax Current100 mALeakage Current<0.8 mA	Connector Type	Mini Quick-Connect
Operating Temperature-25 °C - +70 °CCurrent Consumption-IP Rating:IP68EMC RatingRFI>3V/m / EFT>1kV / ESD>4Kv (contact)Shock Rating:IEC 60497-5-2 Part 7.4.1&7.4.2Short Circuit ProtectedYesReverse Polarity ProtectedYesMax Current100 mALeakage Current<0.8 mA	Operating Voltage	10-60 VDC
Current Consumption-IP Rating:IP68EMC RatingRFI>3V/m / EFT>1kV / ESD>4Kv (contact)Shock Rating:IEC 60497-5-2 Part 7.4.1&7.4.2Short Circuit ProtectedYesReverse Polarity ProtectedYesMax Current100 mALeakage Current<0.8 mA	Switching Frequency	500 Hz
IP Rating:IP68EMC RatingRFI>3V/m / EFT>1kV / ESD>4Kv (contact)Shock Rating:IEC 60497-5-2 Part 7.4.1&7.4.2Short Circuit ProtectedYesReverse Polarity ProtectedYesMax Current100 mALeakage Current<0.8 mA	Operating Temperature	-25 °C – +70 °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 ProtectedYesMax Current100 mALeakage Current<0.8 mA	Current Consumption	-
Shock Rating:IEC 60497-5-2 Part 7.4.1&7.4.2Short Circuit ProtectedYesReverse Polarity ProtectedYesMax Current100 mALeakage Current<0.8 mA	IP Rating:	IP68
Short Circuit ProtectedYesReverse Polarity ProtectedYesMax Current100 mALeakage Current<0.8 mA	EMC Rating	RFI>3V/m / EFT>1kV / ESD>4Kv (contact)
Reverse Polarity ProtectedYesMax Current100 mALeakage Current<0.8 mA	Shock Rating:	IEC 60497-5-2 Part 7.4.1&7.4.2
Max Current100 mALeakage Current<0.8 mA	Short Circuit Protected	Yes
Leakage Current<0.8 mASurge Current-Response Time0.5 ms/0.5 msHysteresis<15%(Sr)	Reverse Polarity Protected	Yes
Surge Current-Response Time0.5 ms/0.5 msHysteresis<15%(Sr)	Max Current	100 mA
Response Time0.5 ms/0.5 msHysteresis<15%(Sr)	Leakage Current	<0.8 mA
Hysteresis<15%(Sr)Overload Trip Point>120 mAWeld Field ImmuneNoWeld Spatter ResistantNo	Surge Current	-
Overload Trip Point >120 mA   Weld Field Immune No   Weld Spatter Resistant No	Response Time	0.5 ms/0.5 ms
Weld Field Immune No   Weld Spatter Resistant No	Hysteresis	<15%(Sr)
Weld Spatter Resistant No	Overload Trip Point	>120 mA
	Weld Field Immune	No
Body Length (mm) 96	Weld Spatter Resistant	No
	Body Length (mm)	96

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