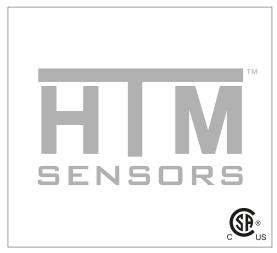
## **Extended Range Proximity Sensor**



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

# Part Number ECU1-D0802P-SCU4

#### **Features**

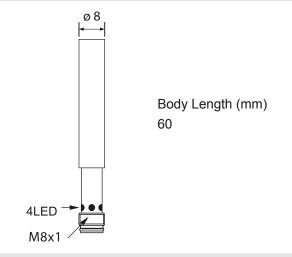
Inductive Proximity Sensors are used in a wide variety of manufacturing operations where a metal target needs to be sensed. HTM Sensors inductive proximity sensors have a Lifetime Warranty, a CSA or UL approval, and a huge inventory for sameday shipping. For tougher applications where the sensors need 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



### **Dimensions**



| 1 | hn | 100  | l Data |
|---|----|------|--------|
| 1 |    | ıcaı | Data   |

| Sensor Housing Material Stainless Steel SUS303 Sensor Face Material PBT Plastic Mounting Style Diameter 8 mm Smooth Sensing Range: 2 mm Range Output Type: PNP Output Output Function NO/NC Switchable Output Connector Connector Type M8x1 Quick-Connect Operating Voltage 10-30 VDC Switching Frequency 2 KHz Operating Temperature -25 °C - +70 °C Current Consumption IP Rating: IP67 EMC Rating RFI>3V/m / EFT>1kV / ESD>4KV (contact) Shock Rating: IEC 60497-5-2 Part 7.4.1&7.4.2 Short Circuit Protected Yes Reverse Polarity Protected Max Current 200 mA Leakage Current - Response Time 0.1 ms/0.1 ms Hysteresis - Current Tip Point  | Body Style                 | Cylindrical                            |  |
|--|----------------------------|--|--|
| Mounting Style Shielded  Diameter 8 mm Smooth  Sensing Range: 2 mm Range  Output Type: PNP Output  Output Function NO/NC Switchable Output  Connection 4-Pin Connector  Connector Type M8x1 Quick-Connect  Operating Voltage 10-30 VDC  Switching Frequency 2 KHz  Operating Temperature -25 °C - +70 °C  Current Consumption <10 mA  IP Rating: IP67  EMC Rating RFI>3V/m / EFT>1kV / ESD>4Kv (contact)  Shock Rating: IEC 60497-5-2 Part 7.4.1&7.4.2  Short Circuit Protected Yes  Reverse Polarity Protected Yes  Max Current -  Response Time 0.1 ms/0.1 ms  Hysteresis <15%(Sr)   | Sensor Housing Material    | Stainless Steel SUS303                 |  |
| Diameter 8 mm Smooth  Sensing Range: 2 mm Range  Output Type: PNP Output  Output Function NO/NC Switchable Output  Connection 4-Pin Connector  Connector Type M8x1 Quick-Connect  Operating Voltage 10-30 VDC  Switching Frequency 2 KHz  Operating Temperature -25 °C - +70 °C  Current Consumption <10 mA  IP Rating: IP67  EMC Rating RFI>3V/m / EFT>1kV / ESD>4Kv (contact)  Shock Rating: IEC 60497-5-2 Part 7.4.1&7.4.2  Short Circuit Protected Yes  Reverse Polarity Protected Yes  Max Current 200 mA  Leakage Current <0.01 mA  Surge Current -  Response Time 0.1 ms/0.1 ms  Hysteresis <15%(Sr)  | Sensor Face Material       | PBT Plastic                            |  |
| Sensing Range: 2 mm Range Output Type: PNP Output Output Function NO/NC Switchable Output Connection 4-Pin Connector Connector Type M8x1 Quick-Connect Operating Voltage 10-30 VDC Switching Frequency 2 KHz Operating Temperature -25 °C - +70 °C Current Consumption <10 mA IP Rating: IP67 EMC Rating RFI>3V/m / EFT>1kV / ESD>4Kv (contact) Shock Rating: IEC 60497-5-2 Part 7.4.1&7.4.2 Short Circuit Protected Yes Reverse Polarity Protected Yes Max Current 200 mA Leakage Current <0.01 mA Surge Current - Response Time 0.1 ms/0.1 ms Hysteresis <15%(Sr)  | Mounting Style             | Shielded                               |  |
| Output Type: PNP Output Output Function NO/NC Switchable Output Connection 4-Pin Connector Connector Type M8x1 Quick-Connect Operating Voltage 10-30 VDC Switching Frequency 2 KHz Operating Temperature -25 °C - +70 °C Current Consumption <10 mA IP Rating: IP67 EMC Rating RFI>3V/m / EFT>1kV / ESD>4Kv (contact) Shock Rating: IEC 60497-5-2 Part 7.4.1&7.4.2 Short Circuit Protected Yes Reverse Polarity Protected Yes Max Current 200 mA Leakage Current <0.01 mA Surge Current Response Time 0.1 ms/0.1 ms Hysteresis <15%(Sr)  | Diameter                   | 8 mm Smooth                            |  |
| Output Function NO/NC Switchable Output Connection 4-Pin Connector Connector Type M8x1 Quick-Connect Operating Voltage 10-30 VDC Switching Frequency 2 KHz Operating Temperature -25 °C - +70 °C Current Consumption <10 mA IP Rating: IP67 EMC Rating RFI>3V/m / EFT>1kV / ESD>4Kv (contact) Shock Rating: IEC 60497-5-2 Part 7.4.1&7.4.2 Short Circuit Protected Yes Reverse Polarity Protected Yes Max Current 200 mA Leakage Current <0.01 mA Surge Current - Response Time 0.1 ms/0.1 ms Hysteresis <15%(Sr)  | Sensing Range:             | 2 mm Range                             |  |
| Connector Type M8x1 Quick-Connect  Operating Voltage 10-30 VDC  Switching Frequency 2 KHz  Operating Temperature -25 °C - +70 °C  Current Consumption <10 mA  IP Rating: IP67  EMC Rating RFI>3V/m / EFT>1kV / ESD>4Kv (contact)  Shock Rating: IEC 60497-5-2 Part 7.4.1&7.4.2  Short Circuit Protected Yes  Reverse Polarity Protected Yes  Max Current 200 mA  Leakage Current <0.01 mA  Surge Current -  Response Time 0.1 ms/0.1 ms  Hysteresis <15%(Sr)   | Output Type:               | PNP Output                             |  |
| Connector Type M8x1 Quick-Connect  Operating Voltage 10-30 VDC  Switching Frequency 2 KHz  Operating Temperature -25 °C - +70 °C  Current Consumption <10 mA  IP Rating: IP67  EMC Rating RFI>3V/m / EFT>1kV / ESD>4Kv (contact)  Shock Rating: IEC 60497-5-2 Part 7.4.1&7.4.2  Short Circuit Protected Yes  Reverse Polarity Protected Yes  Max Current 200 mA  Leakage Current <0.01 mA  Surge Current -  Response Time 0.1 ms/0.1 ms  Hysteresis <15%(Sr)   | Output Function            | NO/NC Switchable Output                |  |
| Operating Voltage 10-30 VDC  Switching Frequency 2 KHz  Operating Temperature -25 °C - +70 °C  Current Consumption <10 mA  IP Rating: IP67  EMC Rating RFI>3V/m / EFT>1kV / ESD>4Kv (contact)  Shock Rating: IEC 60497-5-2 Part 7.4.1&7.4.2  Short Circuit Protected Yes  Reverse Polarity Protected Yes  Max Current 200 mA  Leakage Current <0.01 mA  Surge Current -  Response Time 0.1 ms/0.1 ms  Hysteresis <15%(Sr)  | Connection                 | 4-Pin Connector                        |  |
| Switching Frequency  Operating Temperature  -25 °C - +70 °C  Current Consumption  IP Rating:  IP67  EMC Rating  RFI>3V/m / EFT>1kV / ESD>4Kv (contact)  Shock Rating:  IEC 60497-5-2 Part 7.4.1&7.4.2  Short Circuit Protected  Yes  Reverse Polarity Protected  Yes  Max Current  200 mA  Leakage Current  -  Response Time  0.1 ms/0.1 ms  Hysteresis  215%(Sr)  | Connector Type             | M8x1 Quick-Connect                     |  |
| Operating Temperature  -25 °C - +70 °C  Current Consumption  IP Rating:  IP67  EMC Rating  RFI>3V/m / EFT>1kV / ESD>4Kv (contact)  Shock Rating:  IEC 60497-5-2 Part 7.4.1&7.4.2  Short Circuit Protected  Yes  Reverse Polarity Protected  Yes  Max Current  200 mA  Leakage Current  -  Response Time  0.1 ms/0.1 ms  Hysteresis  -25 °C - +70 °C  C  - +70 °C  C  | Operating Voltage          | 10-30 VDC                              |  |
| Current Consumption <10 mA  IP Rating: IP67  EMC Rating RFI>3V/m / EFT>1kV / ESD>4Kv (contact)  Shock Rating: IEC 60497-5-2 Part 7.4.1&7.4.2  Short Circuit Protected Yes  Reverse Polarity Protected Yes  Max Current 200 mA  Leakage Current <0.01 mA  Surge Current -  Response Time 0.1 ms/0.1 ms  Hysteresis <15%(Sr)   | Switching Frequency        | 2 KHz                                  |  |
| IP Rating:  EMC Rating  RFI>3V/m / EFT>1kV / ESD>4Kv (contact)  Shock Rating:  IEC 60497-5-2 Part 7.4.1&7.4.2  Short Circuit Protected  Yes  Reverse Polarity Protected  Yes  Max Current  200 mA  Leakage Current  -  Response Time  0.1 ms/0.1 ms  Hysteresis  IEC 60497-5-2 Part 7.4.1&7.4.2  Yes  Yes  Yes  Max Current  200 mA  -  100 mA  100 mA | Operating Temperature      | -25 °C – +70 °C                        |  |
| EMC Rating RFI>3V/m / EFT>1kV / ESD>4Kv (contact)  Shock Rating: IEC 60497-5-2 Part 7.4.1&7.4.2  Short Circuit Protected Yes  Reverse Polarity Protected Yes  Max Current 200 mA  Leakage Current < 0.01 mA  Surge Current -  Response Time 0.1 ms/0.1 ms  Hysteresis <15%(Sr)   | Current Consumption        | <10 mA                                 |  |
| Shock Rating: IEC 60497-5-2 Part 7.4.1&7.4.2 Short Circuit Protected Yes Reverse Polarity Protected Yes Max Current 200 mA Leakage Current <0.01 mA Surge Current - Response Time 0.1 ms/0.1 ms Hysteresis <15%(Sr)  | IP Rating:                 | IP67                                   |  |
| Short Circuit Protected Yes Reverse Polarity Protected Yes Max Current 200 mA Leakage Current <0.01 mA Surge Current - Response Time 0.1 ms/0.1 ms Hysteresis <15%(Sr)   | EMC Rating                 | RFI>3V/m / EFT>1kV / ESD>4Kv (contact) |  |
| Reverse Polarity Protected  Yes  Max Current  Leakage Current  Surge Current  Response Time  0.1 ms/0.1 ms  Hysteresis  <15%(Sr)   | Shock Rating:              | IEC 60497-5-2 Part 7.4.1&7.4.2         |  |
| Max Current         200 mA           Leakage Current         <0.01 mA  | Short Circuit Protected    | Yes                                    |  |
| Leakage Current         <0.01 mA   | Reverse Polarity Protected | Yes                                    |  |
| Surge Current         -           Response Time         0.1 ms/0.1 ms           Hysteresis         <15%(Sr)  | Max Current                | 200 mA                                 |  |
| Response Time 0.1 ms/0.1 ms Hysteresis <15%(Sr)  | Leakage Current            | <0.01 mA                               |  |
| Hysteresis <15%(Sr)  | Surge Current              | -                                      |  |
| ` '  | Response Time              | 0.1 ms/0.1 ms                          |  |
| Overload Trip Point  | Hysteresis                 | <15%(Sr)                               |  |
| Overload Trip Foint 2220 TIA   | Overload Trip Point        | ≥220 mA                                |  |
| Weld Field Immune No   | Weld Field Immune          | No                                     |  |
| Weld Spatter Resistant No  | Weld Spatter Resistant     | No                                     |  |
| Body Length (mm) 60  | Body Length (mm)           | 60                                     |  |

