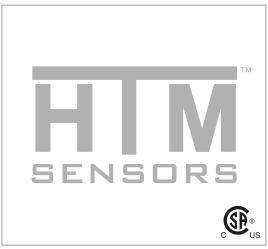
## **Inductive Proximity Sensor**



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

# Part Number FCP1-3010A-ABL4

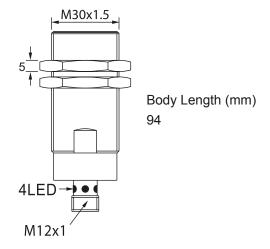
#### **Features**

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



### **Dimensions**



| _   |    |       | <b>D</b> |
|-----|----|-------|----------|
|     | nn | IC 21 | Data     |
| 166 |    | ıcaı  | Data     |

| Sensor Housing Material  Sensor Face Material  PBT Plastic  Mounting Style  Shielded  Diameter  30 mm Threaded  Sensing Range:  10 mm Range  Output Type:  AC Output  Output Function  Normally Open Output  Connection  4-Pin Connector  Connector Type  M12x1 Quick-Connect  Operating Voltage  20-250 VAC  Switching Frequency  <25 Hz  Operating Temperature  -25 °C - +70 °C  Current Consumption  IP Rating:  IP68  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  NO | Body Style                 | Cylindrical                            |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------------|--|
| Mounting Style Diameter 30 mm Threaded Sensing Range: 10 mm Range Output Type: AC Output Output Function Normally Open Output Connection 4-Pin Connector Connector Type M12x1 Quick-Connect Operating Voltage 20-250 VAC Switching Frequency Operating Temperature -25 °C - +70 °C Current Consumption IP Rating: IP68 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 NO                                                                                                         | Sensor Housing Material    | PBT Plastic                            |  |
| Diameter 30 mm Threaded  Sensing Range: 10 mm Range  Output Type: AC Output  Output Function Normally Open Output  Connection 4-Pin Connector  Connector Type M12x1 Quick-Connect  Operating Voltage 20-250 VAC  Switching Frequency <25 Hz  Operating Temperature -25 °C - +70 °C  Current Consumption <1.8 mA  IP Rating: IP68  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 NO                                                                                            | Sensor Face Material       | PBT Plastic                            |  |
| Sensing Range: 10 mm Range Output Type: AC Output Output Function Normally Open Output Connection 4-Pin Connector Connector Type M12x1 Quick-Connect Operating Voltage 20-250 VAC Switching Frequency <25 Hz Operating Temperature -25 °C - +70 °C Current Consumption <1.8 mA IP Rating: IP68 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 NO                                                                                                                                 | Mounting Style             | Shielded                               |  |
| Output Type:  Output Function  Normally Open Output  Connection  4-Pin Connector  Connector Type  M12x1 Quick-Connect  Operating Voltage  20-250 VAC  Switching Frequency  Operating Temperature  -25 °C - +70 °C  Current Consumption  IP Rating:  IP68  EMC Rating  RFI>3V/m / EFT>1kV / ESD>4Kv (contact)  Short Circuit Protected  NO                                                                                                                                                                                                                | Diameter                   | 30 mm Threaded                         |  |
| Output Function  Normally Open Output  Connection  4-Pin Connector  Connector Type  M12x1 Quick-Connect  Operating Voltage  20-250 VAC  Switching Frequency  <25 Hz  Operating Temperature  -25 °C - +70 °C  Current Consumption  IP Rating:  IP68  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  NO                                                                                                                                                                       | Sensing Range:             | 10 mm Range                            |  |
| Connection         4-Pin Connector           Connector Type         M12x1 Quick-Connect           Operating Voltage         20-250 VAC           Switching Frequency         <25 Hz                                                                                                                                                                                                                                                                                                                                                                      | Output Type:               | AC Output                              |  |
| Connector Type M12x1 Quick-Connect  Operating Voltage 20-250 VAC  Switching Frequency <25 Hz  Operating Temperature -25 °C - +70 °C  Current Consumption <1.8 mA  IP Rating: IP68  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 NO                                                                                                                                                                                                                                           | Output Function            | Normally Open Output                   |  |
| Operating Voltage         20-250 VAC           Switching Frequency         <25 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Connection                 | 4-Pin Connector                        |  |
| Switching Frequency <25 Hz  Operating Temperature -25 °C - +70 °C  Current Consumption <1.8 mA  IP Rating: IP68  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 NO                                                                                                                                                                                                                                                                                                             | Connector Type             | M12x1 Quick-Connect                    |  |
| Operating Temperature -25 °C - +70 °C  Current Consumption <1.8 mA  IP Rating: IP68  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 NO                                                                                                                                                                                                                                                                                                                                         | Operating Voltage          | 20-250 VAC                             |  |
| Current Consumption <1.8 mA  IP Rating: IP68  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 NO                                                                                                                                                                                                                                                                                                                                                                                | Switching Frequency        | <25 Hz                                 |  |
| IP Rating: IP68  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 NO                                                                                                                                                                                                                                                                                                                                                                                                             | 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 NO                                                                                                                                                                                                                                                                                                                                                                                                                                | Current Consumption        | <1.8 mA                                |  |
| Shock Rating: IEC 60497-5-2 Part 7.4.1&7.4.2 Short Circuit Protected NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | IP Rating:                 | IP68                                   |  |
| Short Circuit Protected NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 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    | NO                                     |  |
| Reverse Polarity Protected NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Reverse Polarity Protected | NO                                     |  |
| Max Current 400 mA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Max Current                | 400 mA                                 |  |
| Leakage Current <1.8 mA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Leakage Current            | <1.8 mA                                |  |
| Surge Current 5 A (20 ms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Surge Current              | 5 A (20 ms)                            |  |
| Response Time 10 ms/10 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Response Time              | 10 ms/10 ms                            |  |
| Hysteresis <15%(Sr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Hysteresis                 | <15%(Sr)                               |  |
| Overload Trip Point -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Overload Trip Point        | -                                      |  |
| Weld Field Immune No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Weld Field Immune          | No                                     |  |
| Weld Spatter Resistant No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Weld Spatter Resistant     | No                                     |  |
| Body Length (mm) 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Body Length (mm)           | 94                                     |  |

