Long Range Proximity Sensor



Dimensions

Body Length (mm) 96

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

Part Number LCP1-D3422P-AYU5

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

| Body Style Cylindrical Sensor Housing Material PBT Plastic Sensor Face Material PBT Plastic Mounting Style Shielded Diameter 34 mm Smooth Sensing Range: 22 mm Range Output Type: PNP Output Output Function Normally Open Output Connection 5-Pin Connector Connector Type C164R plug Series connector Operating Voltage 10-30 VDC Switching Frequency 300 Hz 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 0.5 ms/0.5 ms Hysteresis <15%(Sr) Overload Trip Point ≥220 mA </th <th>Technical Data</th> <th></th> | Technical Data | |
|--|----------------------------|--|
| Sensor Face Material PBT Plastic Mounting Style Shielded Diameter 34 mm Smooth Sensing Range: 22 mm Range Output Type: PNP Output Output Function Normally Open Output Connection 5-Pin Connector Connector Type C164R plug Series connector Operating Voltage 10-30 VDC Switching Frequency 300 Hz 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 7.4.187.4.2 Short Circuit Protected Yes Max Current 200 mA Leakage Current <0.01 mA Surge Current - Response Time 0.5 ms/0.5 ms Hysteresis <15%(Sr) Overload Trip Point ≥220 mA Weld Spatter Resistant No | Body Style | Cylindrical |
| Mounting Style Shielded Diameter 34 mm Smooth Sensing Range: 22 mm Range Output Type: PNP Output Output Function Normally Open Output Connection 5-Pin Connector Connector Type C164R plug Series connector Operating Voltage 10-30 VDC Switching Frequency 300 Hz Operating Temperature -25 °C − +70 °C Current Consumption <10 mA | Sensor Housing Material | PBT Plastic |
| Diameter 34 mm Smooth Sensing Range: 22 mm Range Output Type: PNP Output Output Function Normally Open Output Connection 5-Pin Connector Connector Type C164R plug Series connector Operating Voltage 10-30 VDC Switching Frequency 300 Hz 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 Reverse Polarity Protected Yes Max Current 200 mA Leakage Current <0.5 ms/0.5 ms Hysteresis <15%(Sr) Overload Trip Point ≥220 mA Weld Spatter Resistant No | Sensor Face Material | PBT Plastic |
| Sensing Range:22 mm RangeOutput Type:PNP OutputOutput FunctionNormally Open OutputConnection5-Pin ConnectorConnector TypeC164R plug Series connectorOperating Voltage10-30 VDCSwitching Frequency300 HzOperating Temperature-25 °C − +70 °CCurrent Consumption<10 mA | Mounting Style | Shielded |
| Output Type:PNP OutputOutput FunctionNormally Open OutputConnection5-Pin ConnectorConnector TypeC164R plug Series connectorOperating Voltage10-30 VDCSwitching Frequency300 HzOperating Temperature-25 °C − +70 °CCurrent Consumption<10 mA | Diameter | 34 mm Smooth |
| Output Function Normally Open Output Connection 5-Pin Connector Connector Type C164R plug Series connector Operating Voltage 10-30 VDC Switching Frequency 300 Hz 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 Reverse Polarity Protected Yes Max Current <200 mA Leakage Current <-0.01 mA Surge Current - Response Time 0.5 ms/0.5 ms Hysteresis <15%(Sr) Overload Trip Point ≥220 mA Weld Spatter Resistant No | Sensing Range: | 22 mm Range |
| Connector Type C164R plug Series connector Connector Type C164R plug Series connector Operating Voltage 10-30 VDC Switching Frequency 300 Hz 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 -1 Response Time 0.5 ms/0.5 ms Hysteresis <15%(Sr) Overload Trip Point ≥220 mA Weld Spatter Resistant No | Output Type: | PNP Output |
| Connector Type C164R plug Series connector Operating Voltage 10-30 VDC Switching Frequency 300 Hz 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 0.5 ms/0.5 ms Hysteresis <15%(Sr) Overload Trip Point ≥220 mA Weld Field Immune No Weld Spatter Resistant No | Output Function | Normally Open Output |
| Operating Voltage 10-30 VDC Switching Frequency 300 Hz 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 0.5 ms/0.5 ms Hysteresis <15%(Sr) Overload Trip Point ≥220 mA Weld Spatter Resistant No | Connection | 5-Pin Connector |
| Switching Frequency300 HzOperating Temperature-25 °C - +70 °CCurrent Consumption<10 mA | Connector Type | C164R plug Series connector |
| Operating Temperature -25 °C − +70 °C Current Consumption Pating: 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 -0.5 ms/0.5 ms Hysteresis <15%(Sr) Overload Trip Point ≥220 mA Weld Spatter Resistant No | 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 0.5 ms/0.5 ms Hysteresis <15%(Sr) Overload Trip Point ≥220 mA Weld Field Immune No Weld Spatter Resistant No | Switching Frequency | 300 Hz |
| 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 Leakage Current - Response Time 0.5 ms/0.5 ms Hysteresis <15%(Sr) Overload Trip Point Veld Field Immune No Weld Spatter Resistant 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 Yes Reverse Polarity Protected Yes Max Current 200 mA Leakage Current <0.01 mA Surge Current - Response Time 0.5 ms/0.5 ms Hysteresis <15%(Sr) Overload Trip Point ≥220 mA Weld Field Immune No Weld Spatter Resistant No | Current Consumption | <10 mA |
| Shock Rating:IEC 60497-5-2 Part 7.4.1&7.4.2Short Circuit ProtectedYesReverse Polarity ProtectedYesMax Current200 mALeakage Current<0.01 mA | IP Rating: | IP67 |
| Short Circuit Protected Yes Reverse Polarity Protected Yes Max Current 200 mA Leakage Current <0.01 mA Surge Current - Response Time 0.5 ms/0.5 ms Hysteresis <15%(Sr) Overload Trip Point ≥220 mA Weld Field Immune No Weld Spatter Resistant No | EMC Rating | RFI>3V/m / EFT>1kV / ESD>4Kv (contact) |
| Reverse Polarity Protected Max Current Leakage Current Surge Current Response Time 0.5 ms/0.5 ms Hysteresis <15%(Sr) Overload Trip Point Veld Field Immune No Weld Spatter Resistant Yes 200 mA Ves <0.01 mA Surge Current - 15%(Sr) 0.5 ms/0.5 ms ✓15%(Sr) No | 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 0.5 ms/0.5 ms Hysteresis <15%(Sr) Overload Trip Point ≥220 mA Weld Field Immune No Weld Spatter Resistant No | Max Current | 200 mA |
| Response Time 0.5 ms/0.5 ms Hysteresis <15%(Sr) | Leakage Current | <0.01 mA |
| Hysteresis <15%(Sr) Overload Trip Point ≥220 mA Weld Field Immune No Weld Spatter Resistant No | Surge Current | - |
| Overload Trip Point ≥220 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 | ≥220 mA |
| | Weld Field Immune | No |
| Body Length (mm) 96 | Weld Spatter Resistant | No |
| | Body Length (mm) | 96 |



