**PCA Custom Build Incremental Encoder**
**INSE-06HR-Z2AM/00050-A020**



This is a special build encoder for which the assembly is done in house. The encoder has a machined aluminium outer casing which is thicker and stronger than our standard PCA encoder designs. Another specialty of this encoder that it comes with an armoured cable. This makes the cable much sturdier than our standard cables as well as protecting the encoder output signal from external and electrical noise.

The picture above is for presentation purposes only. Please refer to the detailed technical drawing.
**Setting**: 50 PPR, HTL, A leads B

**Interface**

| | |
|---|---|
| Interface | Programmable Incremental |
| Programming Functions | PPR (1-16384), Output, Counting Direction |
| Configuration Tool | UBIFAST Configuration Tool (Version ≥ 1.6.3) |

**Outputs**

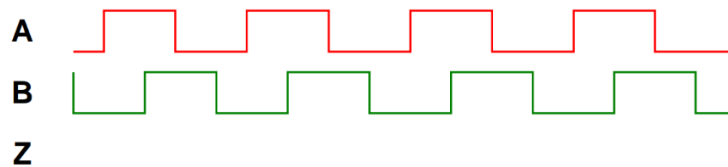| | |
|---|---|
| Output Driver | Push-Pull (HTL) |
| Output Voltage High Level | Vcc - 0.7 Volt |
| Output Voltage Low Level | 0.25 Volt (max |
| Maximum Frequency Response | 300 kHz |
| Maximum Switching Current | 50 mA per Channel |

## Electrical Data

| | |
|---|---|
| Supply Voltage | 4.75 – 30 VDC |
| Current Consumption | 40 mA (max) |
| Power Consumption | ≤ 1.2 W |
| Reverse Polarity Protection | Yes |
| Short Circuit Protection | Yes (100%) |

## Mechanical Data

| | |
|---|---|
| Housing Material | Anodized Aluminium |
| Flange Type | Synchro, ø 58 mm (L) |
| Flange Material | Aluminium |
| Shaft Type | Solid, Length = 20 mm |
| Shaft Diameter | ø 6 mm (0.39") |
| Shaft Material | Stainless Steel |
| Max. Shaft Load | Axial 40 N, Radial 30 N |
| Friction Torque | ≤ 0.05 Nm |
| Max. Permissible Mechanical Speed | ≤ 8000 RPM |

## Electrical Connection

| | |
|---|---|
| Connection Orientation | Axial |
| Connector | 3m armoured 4 core cable |



## Physical Dimensions