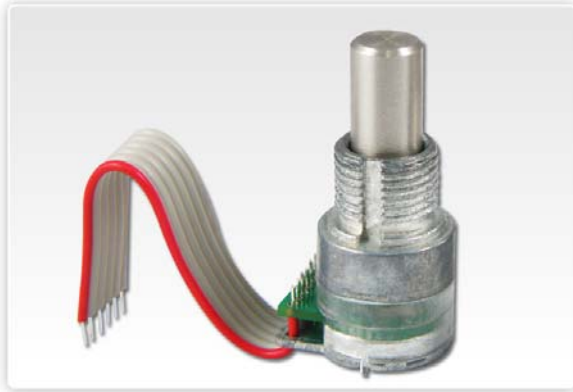




# HS12.7

Panel Optical Encoder



## Electrical

Supply Voltage	4.5 ~ 5.5 v
Supply Current	5mA Max.
Frequency	60kHz Max.
Rise Time	500ns
Fall Time	100ns

## Materials

Shaft	Stainless steel
Housing	Aluminum

## Environmental

Operating Temperature	-20 ~ 85°C
Storage Temperature	-40 ~ 85°C

## Phase Relationship

B leads A for clockwise shaft rotation, A leads B for counter clockwise shaft rotation viewed from the shaft/bushing side of the encoder.

## Application

- Precise Industry Instrument
- Stereo Set
- Mixer
- Oscillograph
- Position Sensor / Audio / Temperature / Speed control / Panel Control
- Menu Selection
- Flow / Humidity Control System

## Resolution

12, 16, 20, 24, 32 P/R

## Mechanical

Shaft Torque	0.5 ±0.4 in. oz.
Axial Loading	1 lbs. max.
Radial Loading	2 lbs. max.
Rotational Speed	100 RPM max.
Rotational life	1,000,000 revolutions
Acceleration	10,000 rad/sec <sup>2</sup>
Vibration	20 g. 5 to 2KHz
Weight	9g

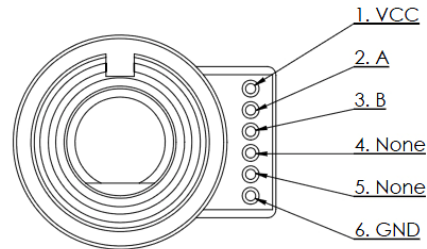


# HS12.7

Panel Optical Encoder

## Pin-out

1	Vcc	4	none
2	Channel A	5	none
3	Channel B	6	Gnd



## Description

HS12.7 is origin of the rotary encoder features non-contacting rotary into digital converter system. These are series of miniature panel mount optical encoders defined as a data-entry device which is very flexible for diversity applications with the functional potentiometers applied into the interface of front-panel manual.

These composed of the alloy aluminum covering of its body side surface accompanying the thread of UNEF-2A with the elaborate designation as well as the shaft of 6.35 mm, voltage output 5V and the storage temperature from -20~80°C.

Theses incorporate optical chip disk upon Honest Sensor patent priority technique providing the reflective sensor an LED emits light onto encoder disc surface causing the output to converter. These are mounted with the ball bearing utilizing a high-resistance temperature encoder disc, mental shaft with TTL compatible and two channels quadrature.

## Mechanical Drawing

