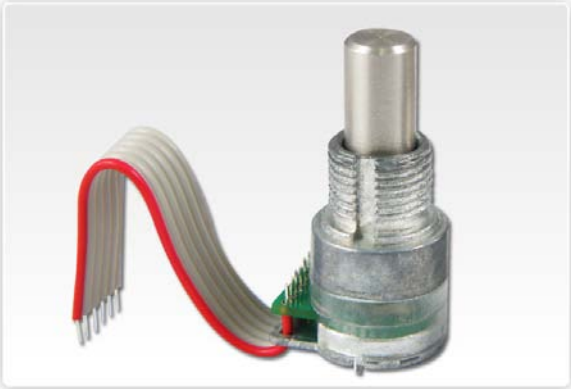
HS12.7

Panel Optical Encoder



Application 应用

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

Electrical 电气规格

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

Resolution 分辨率

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

Mechanical 机械规格

Shaft Torque	0.5 ±0.4 in. oz.
Shaft Loading	2 lbs. max. dynamic 20 lbs. max. static
Rotational Speed	100 RPM max.
Rotational life	1,000,000 revolutions
Acceleration	10,000 rad/sec²
Vibration	20 g. 5 to 2KHz
Weight	9g

Materials 材料

Shaft	Stainless steel
Housing	Aluminum

Environmental 环境条件

Operating Temperature	-20 ~ 85℃
Storage Temperature	-40 ~ 85℃

Phase Relationship 相位关系

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

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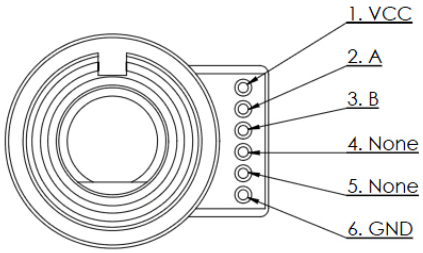
Pin-out 输出接脚

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



Description 说明

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℃.

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 外型尺寸