

INCREMENTAL ENCODER 200CPR

These encoders are high performance, cost-effective, two-channel optional incremental housed encoders. These encoders emphasize high reliability, high resolution and easy assembly. The housed encoders use reflective technology to sense rotary position. This sensor consists of an LED light source and a photodetector IC in a single SO-8 surface mount package. The outputs of the encoder are two square waves in quadrature. These encoders may be quickly and easily mounted to a motor.

Features

Two channel quadrature output. Resolution 200 CPR. Quick and easy assembly. Ideal for small motor systems. Shaft 5mm.-10°C to 85°C Operating Temperature.

Applications

These encoders provides motion detection at a low cost, making them ideal for high volume applications. Typical applications include vending machines and motor manufacturing applications.

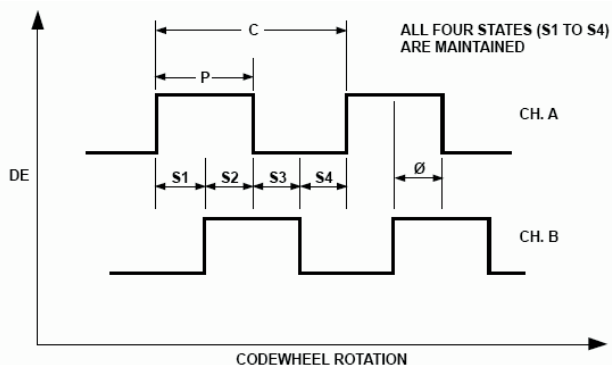
Note: These encoders are not recommended for use in safety critical applications.

► TECHNICAL SPECIFICATIONS:

ELECTRICAL SPECIFICATIONS	
Supply voltage (Vcc)	5V
Current consumption	18mA
Output wave	Square signal. TTL
Output signals	A,B phase
Output current	12mA
Frequency	16kHz
Output phase difference	90°
Output voltage	Vcc
Signal level	VR>2,4V VL<0,4V
Number of pulses	200
MECHANICAL SPECIFICATIONS	
Body diameter	Ø23mm
Shaft diameter	Ø5mm
Shaft axial play	±0,25mm
Shaft eccentricity plus radial play	0,04mm
Radial play between housing and cover	0,2mm – 0,5mm
Concentricity misalignment between mounted base plate center bore and motor shaft	0,12mm
ENVIRONMENTAL SPECIFICATIONS	
Storage temperature	-40°C a +85°C
Operating temperature	-10°C a +85°C

ESD WARNING: NORMAL HANDLING PRECAUTIONS SHOULD BE TAKEN TO AVOID STATIC DISCHARGE.

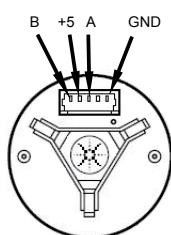
► OUTPUT WAVEFORM



► PINS CONFIGURATION

Pin 1	GND
Pin 2	NC
Pin 3	Ch.A
Pin 4	5V
Pin 5	Ch.B

► TERMINAL ASSIGNMENT



CONECTOR : MOLLEX 51021-0500

