AEDB-9140 Series
Incremental Encoder Module with Codewheel

Product Brief

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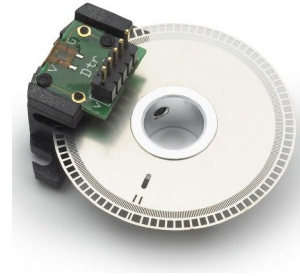
Encoder Background

The AEDB-9140 Series is a miniature encoder series with outer diameter of less than 30mm. The product is designed with semicircular module hence fit elegantly into any round shape housed encoder. Such size and shape is popularly used in the automation industry.

Part Description

The AEDB-9140 series incremental encoder module uses transmissive technology which consists of a lensed LED (Light Emitting Diode) source, an integrated circuit with detectors and an incremental track metal codewheel that rotates between the emitter and detector IC.

The product is designed for use with a codewheel at 11.00mm (0.433inch) optical radius.

All these components are sold in a package as the AEDB-9140, eliminating the need for the customer to match correct components with each other.

Typical Applications

- Servo motors
- Stepper motors
- Robotics
- Machine Tools
- Sewing Machines
- Factory automation
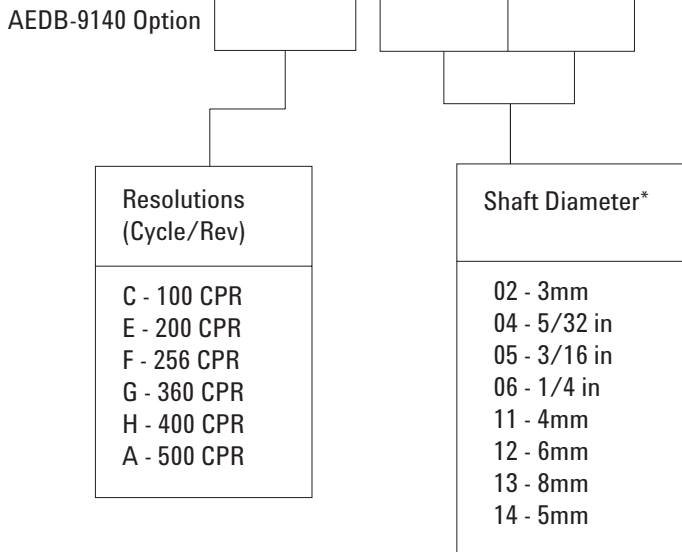- Packaging Machines

Product Features and Benefits

- **High tolerance against error**

  Product can be used in a wide range of applications.

- **Small form factor**

  The miniature form factor makes the AEDB-9140 ideal for space constraint applications specifically for motor applications that required round shape housing.

- **Cost effective product**

  Complete package of encoder module with codewheel offer highly competitive price range.

Other Features

- 2 channel Quadrature Output with Index Pulse
- Resolution from 100CPR to 500CPR.
- TTL compatible
- Single 5V supply

Ordering Information

Three Channel Encoder Module with Codewheel, 11 mm Optical Radius

AEDB-9140 Option

Resolutions (Cycle/Rev)	Shaft Diameter*
C - 100 CPR	02 - 3mm
E - 200 CPR	04 - 5/32 in
F - 256 CPR	05 - 3/16 in
G - 360 CPR	06 - 1/4 in
H - 400 CPR	11 - 4mm
A - 500 CPR	12 - 6mm
	13 - 8mm
	14 - 5mm

* Please contact factory for other shaft diameters.

Available Options

Part No	CPR	Shaft Diameter Options							
		02	04	05	06	11	12	13	14
AEDB-9140	C		●		●		●	●	
	E				●	●	●		●
	F		●				●		●
	G				●		●		●
	H				●				●
	A	●	●	●	●	●	●	●	●

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