

## MODEL A25SB - ABSOLUTE SHAFT ENCODER



Ø2.5"

**SSI** **CANopen**  
 Synchronous Serial Interface

### FEATURES

Single Turn/Multi-Turn Absolute Encoder (16 Bit ST / 43 Bit MT)  
 SSI or CANopen® communication  
 Maintenance-free and environmentally friendly magnetic design  
 Energy harvesting magnetic multi-turn technology  
 No gears or batteries  
 IP67 sealing available  
 Servo and flange mounting  
 Standard Size 25 package (2.5" x 2.5")  
 Meets CE/EMC standards for immunity and emissions

The Model A25SB absolute encoder offers a high performance solution for your absolute feedback needs. This encoder is especially suited for applications where position information must be retained after loss of system power. It provides maintenance-free feedback thanks to its innovative battery-free and gear-free multi-turn technology. This encoder is the perfect choice for harsh industrial applications thanks to its rugged magnetic technology, available IP67 rating, and proven double bearing design. Available with several shaft sizes and mounting styles, the Model A25SB is easily designed into OEM and aftermarket applications.

### COMMON APPLICATIONS

Robotics, Telescopes, Antennas, Medical Scanners, Wind Turbines, Elevators, Lifts, Motors, Automatic Guided Vehicles, Rotary and X/Y Positioning Tables

### MODEL A25SB ORDERING GUIDE

Blue type indicates price adder options

Mechanical				Electrical							
A25SB	10	MA	12	10	CO	A	B	V2	RMJ		
<b>MODEL</b> A25SB Absolute Series	<b>MOUNTING TYPE</b> MA 2.50" Flange MC 2.50" Servo mount	<b>MULTI-TURN RESOLUTION</b> 00 Single Turn 01 to 43 Multi-Turn	<b>SOFTWARE REV</b> A Revision A	<b>INPUT VOLTAGE</b> 5 5 VDC <sup>3</sup> V2 5 to 32 VDC	<b>TEMP</b> 0° to 80° C (Std) T5 -40° to 80° C	<b>SHAFT SIZE</b> 10 10 mm A9 3/8", 0.375" A5 1/4", 0.250"	<b>SINGLE TURN RESOLUTION</b> 01 to 16 Bit	<b>COMMUNICATION PROTOCOL</b> CO CANopen <sup>1</sup> SI SSI <sup>2</sup>	<b>OUTPUT CODE</b> B Binary G Gray <sup>3</sup>	<b>CONNECTOR TYPE<sup>4</sup></b> RMJ 5-pin M12 Side Mount <sup>5</sup> RMK 8-pin M12 Side Mount <sup>3</sup>	<b>SEAL</b> IP50 (Std) S3 IP66 S4 IP67

#### Notes:

- Please refer to CANopen Interface Technical Reference Manual at encoder.com.
- Please refer to Technical Bulletin TB-529: Understanding EPC's SSI Encoders at encoder.com.
- Available with SSI only.
- For mating connectors, cables, and cordsets see Accessories at encoder.com. For Connector Pin Configuration Diagrams, see Technical Information or see Connector Pin Configuration Diagrams at encoder.com.
- Available with CANopen only.

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