

843E Absolute Encoders with EtherNet/IP

Dual Port Ethernet with Embedded Switch and DLR

Features and Benefits

- Suitable for use in midrange architecture solutions with Kinetix® and PowerFlex® drives
- Premier integration
 - RSLogix 5000®: As position scaling, preset, filtering and user-defined alarming
 - ControlFLASH™ update compatible
- Diagnostics
 - Supports Automatic Diagnostics
 - Alarms: Position, velocity, acceleration, temperature
- Upgraded performance
 - 1 ms RPI & IP67 rated enclosure
 - Operating temperature -40...+80 °C (-40...+176 °F)
 - 10...30V DC (±5%)
- Precise settings
 - Configurable resolution per revolution: 1...262,144
 - Multi-turn revolutions: 1...4096
 - Range: 4...1,073,741,824
 - Endless shaft functionality supported
- Connectivity and compatibility
 - Compatible with star, linear and Device Level Ring topology
 - Solid or hollow shaft mounting options
 - Range of shaft diameters (both English and metric)
 - Multi-turn and single-turn options



Solid shaft



With caps



Hollow shaft



Ethernet port 1

Ethernet port 2

Allen-Bradley® encoders are a high-quality complement to Rockwell Automation PLC-based motion control. Our encoders provide absolute feedback for position control and high resolution incremental feedback for speed control. Offering preferred compatibility with other Allen-Bradley servo positioning controls, these encoders are designed for high performance and reliability in harsh industrial environments.

Dual Port EtherNet/IP Encoder

The latest addition to the Allen-Bradley offering is the 843E with an industry-standard EtherNet/IP™ interface. This new encoder comes standard with dual port Ethernet and M12 connectors thus providing customers with an easy, money-saving installation. It also includes an embedded EtherNet/IP switch to connect additional E/IP capable product in series and/or support a DLR for Ethernet media redundancy.

This new high-resolution absolute encoder is ideal for automotive, material handling and general factory automation applications.

Product Selection

843E – S IP 5 BA 4 C
a *b* *c* *d* *e*

a

Family	
Code	Description
E	CIP standard

b

Turns	
Code	Description
S	Single
M	Multi

c

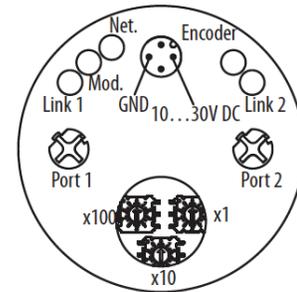
Shaft	
Code	Description
2	Solid shaft with flat, 0.37 in. (9.52 mm)
4	Solid shaft with flat 0.39 in. (10 mm)
5	Hollow shaft 0.25 in. (6.35 mm)
6	Hollow shaft 0.31 in. (8 mm)
7	Hollow shaft 0.37 in. (9.52 mm)
8	Hollow shaft 0.39 in. (10 mm)
9	Hollow shaft 0.47 in. (12 mm)
10	Hollow shaft 0.50 in. (12.7 mm)
11	Hollow shaft 0.55 in. (14 mm)
12	Hollow shaft 0.59 in. (15 mm)
13	Solid shaft with flat 0.24 in. (6 mm)
17	Solid shaft with flat 0.47 in. (12 mm)

d

Flange	
Code	Description
1	Clamping flange 2.28 in. (58 mm)
2	Spring flange 5.91 in. (150 mm)
4	Synchro flange 2.28 in. (58 mm)
6	Diameter flange 2.48 in. (63 mm)
7	Square flange 2.5 in. (63.5 mm)

e

Coating	
Code	Description
	No coating
C	Nano coated



Accessories

Flexible Couplings			
Description	Smallest Bore Diameter	Largest Bore Diameter	Catalog Number
	1/4 in.	1/4 in.	845-FC-A-A
	3/8 in.	3/8 in.	845-FC-B-B
	3/8 in.	1/2 in.	845-FC-B-C
	3/8 in.	10 mm	845-FC-B-T
	10 mm	10 mm	845-FC-T-T

Mounting Plates		
Description	Details	Catalog Number
	Integral coupling flange, high performance	845-MB-5
	BC48 Servo to square flange	845-MB-6
	0.1875 Servo to square flange	845-MB-7
	2.48 in. (63 mm) face mount	845-MB-12

Mounting Brackets		
Description	Details	Catalog Number
	Stator coupling, diameter 63 mm	843E-SC
	Torque stop, flexible	843E-TS

Accessories

Ethernet Media		
Description	Length	Catalog Number
	1 m	1585D-M4TBJM-1
	2 m	1585D-M4TBJM-2
	5 m	1585D-M4TBJM-5
	10 m	1585D-M4TBJM-10
	15 m	1585D-M4TBJM-15

Cordsets & Patchcords		
Description	Length	Catalog Number
	1 m	889D-F4ACDM-1
	2 m	889D-F4ACDM-2
	3 m	889D-F4ACDM-3
	5 m	889D-F4ACDM-5
	10 m	889D-F4ACDM-10

Learn more about 843E EtherNet/IP Absolute Encoders at ab.com.

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AMERICAS: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444
 EUROPE/MIDDLE EAST/AFRICA: Rockwell Automation NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640
 ASIA PACIFIC: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

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