

EtherNet/IP Interface Absolute Multiturn Encoder EAM58



Description

EtherNet/IP interface absolute multiturn encoder EAM58 series has good performance against mechanical damage and can withstand higher axial and radial load. Various flanges could meet different requirements. It complies with common industrial protocol, max resolution 8192, max revolution 4096. The resolution and revolution can be set in accordance with customer requirements. High speed communication and anti-interference ensure stable operation.

Features

- Various flanges available
- Waterproof seal improves IP level
- Connector output, convenient for installation and maintenance
- Protection class IP65
- Metal housing for shock resistance
- Conforming to Common Industrial Protocol, programming functions

Mechanical parameters

Shaft diameter	Φ6/Φ8/Φ10g6 mm (Solid Shaft)
Hollow Shaft diameter	Φ8/Φ10/Φ12/Φ15H7 mm
Protection class	IP65
Max. Permissible Mechanical Speed	6000 r/min
Max. Shaft load	Axial 40 N, Radial 110 N
Shock resistance	≤100 g (half sine 6ms, EN60068-2-27)
Vibration resistance	≤10g (10Hz - 1000Hz, EN60068-2-6)
Bearing life	10 ⁹ revolution
Rotor moment of inertia	≤30 gcm ²
Starting torque	≤3 Ncm
Body material	Aluminum
Housing material	Steel with cathodic corrosion protection
Flange material	Aluminum
Operating temperature	-40...+85 °C
Storage temperature	-45...+85 °C
Relative humidity/condensation	90%, Condensation not permitted
Weight	~400 g

Electrical parameters

Interface	EtherNet/IP
Programming Functions	Resolution, time base and filter for velocity, preset, counting direction, IP-Address
Transmission Rate	10/100 Mbit
Interface Cycle Time	>1 ms
Revolution	4096 (12 bits)
Resolution/revolution	8192 (13 bits)
Supply voltage	10...30 VDC
Current Consumption	≤230 mA-10 VDC, ≤100 mA-24 VDC
Power Consumption	≤2.5 W
Start-Up Time	<250 ms
Accuracy (INL)	±0.0439°

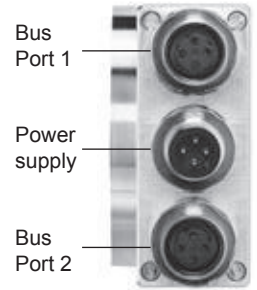
Electrical Connection

Connection Orientation	Radial
Bus Port 1	M12,Female-4 pin,D-coded
Power Supply	M12,Male-4 pin,A-coded
Bus Port 2	M12,Female-4 pin,D-coded

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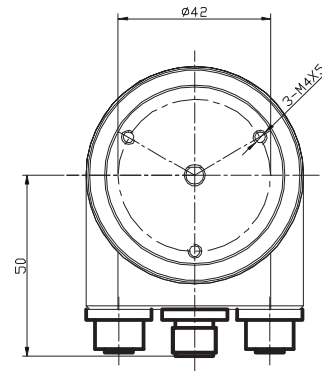
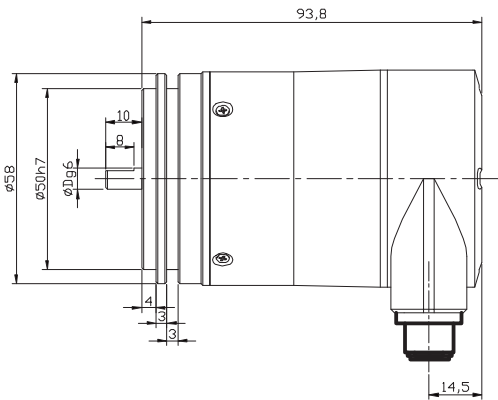
Terminal Assignment

Function	M12 connector					
Bus Port 1	Signal:	Transmit data+	Receive data+	Transmit data-	Receive data-	
	Abbreviation:	TxD+	RxD+	TxD-	RxD-	
	Pin Number:	1	2	3	4	
Power Supply	Signal:	Voltage +	-	Voltage -	-	
	Abbreviation:	+ V	-	0 V	-	
	Pin Number:	1	2	3	4	
Bus Port 2	Signal:	Transmit data+	Receive data+	Transmit data-	Receive data-	
	Abbreviation:	TxD+	RxD+	TxD-	RxD-	
	Pin Number:	1	2	3	4	



Dimensions (mm)

EAM58B



EAM58C

