

EtherCAT Absolute Multiturn Encoder EAM58-ECOM



Description:

EtherCAT absolute multiturn encoder, which has good performance against mechanical damage, and can withstand higher axial and radial load. Various flanges could meet different requirements, conforming to EtherCAT protocol to ensure the max. resolution of 8192 and max. revolution of 4096, which can be adjusted according to customer's field requirements. Its high speed communication and good anti-interference ability make the operation of customer's equipment more stable.

Features:

- 4 status indicators, for a fast and accurate understanding of the product status
- 3xM12 connectors, implement a fast connection
- Industrial Ethercat interface with an intelligent diagnosis and high speed data transmission function
- Software configures the application of various parameters - convenient maintenance
- Faster interface cycle time

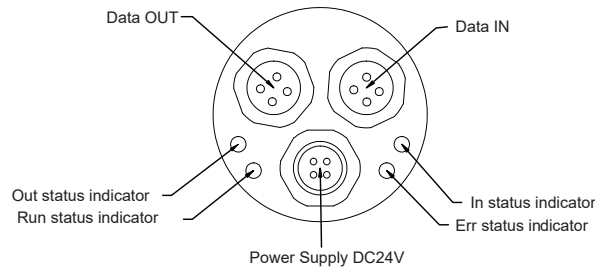
Mechanical Parameters

Shaft diameter	Φ6g6 mm -58B	Φ10g6 mm -58C
Hollow shaft diameter	Φ10H7 mm	-58W
Protection class	IP65	
Max. speed (r/m)	6000	
Shaft load(axial)	40 N	
Shaft load(radial)	80 N	
Shock resistance	50G/11 ms	
Vibration resistance	10G 10...2000 Hz	
Bearing life	10 ⁹ revolution	
Moment of inertia	Approx. 1.8x10 ⁻⁶ kgm ²	
Starting torque	<0.05 Nm	
Housing material	Al-alloy UNI 9002/5 -(D11S)	
Cover material	Al-alloy 6060	
Flange material	Al-alloy UNI 9002/5 -(D11S)	
Operating temperature	-40...+80 °C	
Storage temperature	-45...+85 °C	
Weight	~600 g	

Electrical Parameters

Interface	EtherCAT
Profile	CoE (CANopen over EtherCAT, DS-301 + DS-406)
Programming Functions	Resolution, preset, counting direction
Supply voltage	10...30 VDC
Current consumption (without load)	200 mA
Power Consumption	≤ 2.5 W
Max. bus rate	100 Mbits/s
Interface cycle time	≥ 62.5 μs
Code	Binary
Max. number of laps	4096 (12 bits)
Max. resolution	8192 (13 bits)

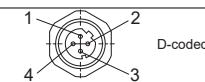
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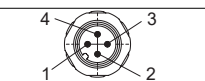
LED indicator

Power indicator	Green light on is normal, red light on is power failure, light off is no power
Communication indicator	Green light on is normal connection, orange light blinking is data transmission in progress, light off is not connected
MOD status indicator	Green light on is working normally and the light off is abnormal

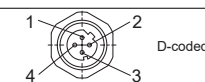
Data port 1

Signal	T×D+	R×D+	T×D-	R×D-	
Pin No.	1	2	3	4	

Power interface

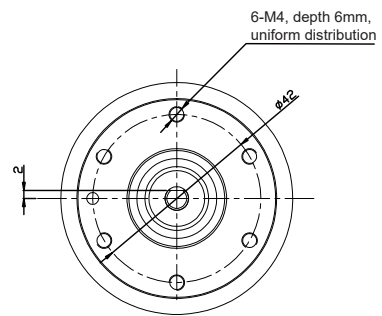
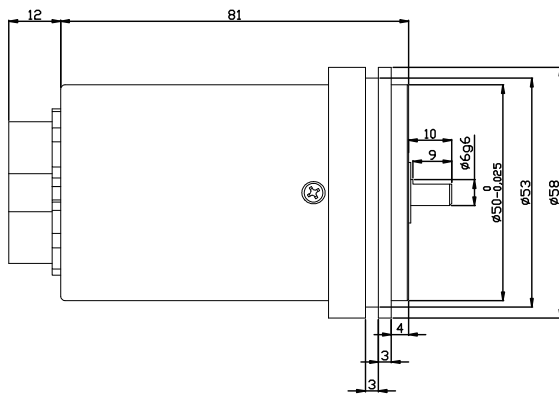
Signal	+V	—	-V	—	
Pin No.	1	—	3	—	

Data port 2

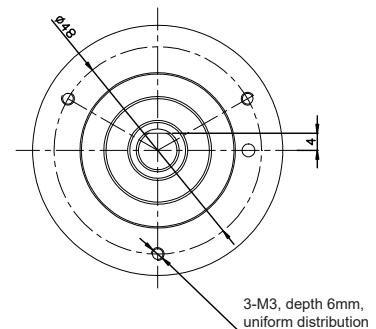
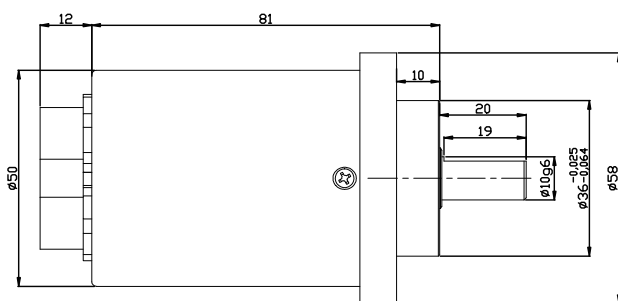
Signal	T×D+	R×D+	T×D-	R×D-	
Pin No.	1	2	3	4	

Dimensions (mm)

EAM58B Axial



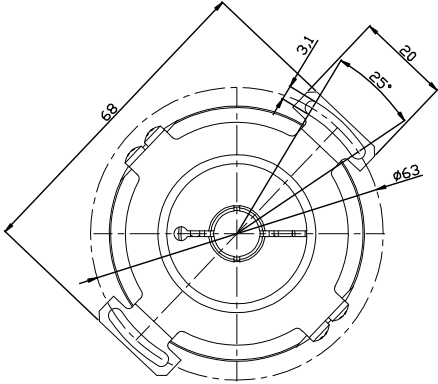
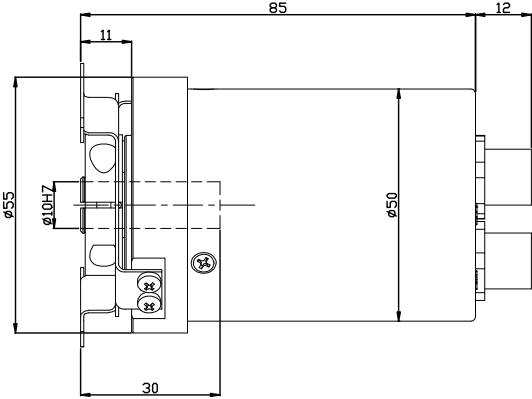
EAM58C Axial



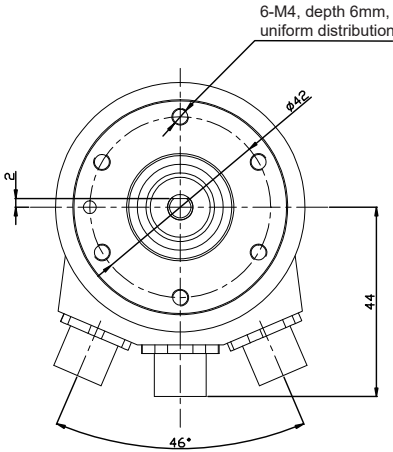
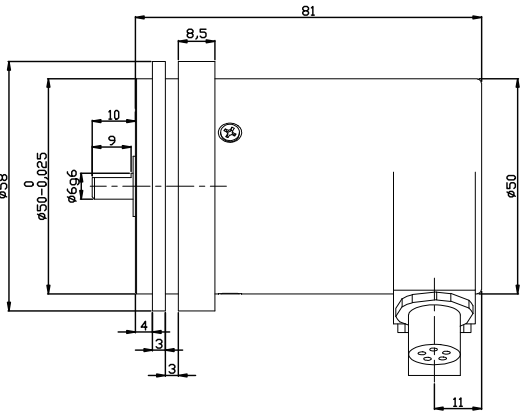
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Dimensions (mm)

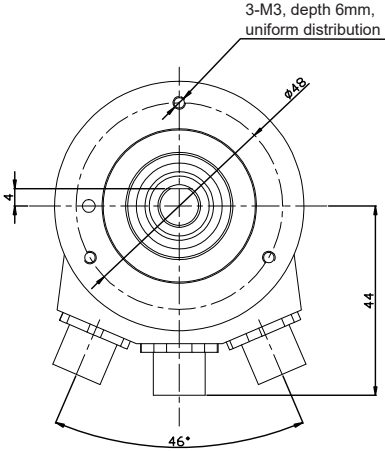
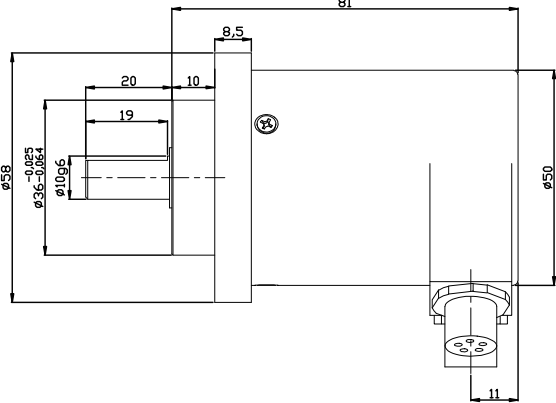
EAM58W Axial



EAM58B Radial



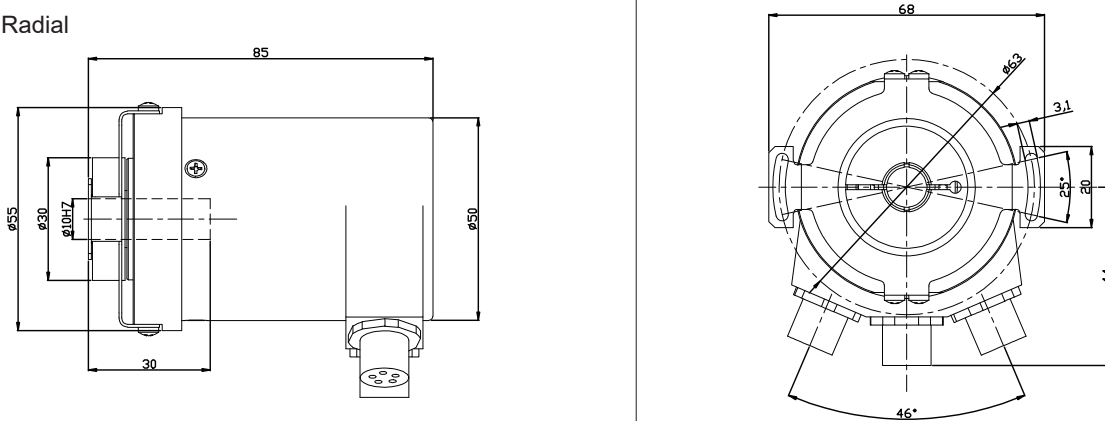
EAM58C Radial



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Dimensions (mm)

EAM58W Radial



Order Code:

EAM 58 C 10 - B F6 X T R - 4096/8192 ECOM . XXXX

EAM	58	C	10	-	B	F6	X	T	R	-	4096/8192	ECOM	. XXXX
												XXXX=Special code	
												Resolution	
												Standard 4096/8192(25Bits)	
												Types of connection	
												R= Radial A= Axial	
												Output logic	
												X=No definition	
												Output and Supply voltage	
												F6=EtherCAT 10...30Vdc	
												Output code	
												B=Binary	
												Flange type	
												B = Synchronous flange, shaft length:10mm C = $\Phi 36$ Clamping flange, shaft length:20mm W = Blind hole hollow shaft flange, double wing spring plate installation	
												Housing dimension	
												58 = $\Phi 58$	
												Series	
												EAM = EtherCAT absolute multiturn encoder	
												Matching connector code: Power terminal connector: TMSP 12F-F4 Bus input connector: TMSP 12FD-M4 Bus output connector: TMSP 12FD-M4	