Profinet Protocol Absolute Multi-turn Encoder EAM58

Description

Profinet protocol absolute multi-turn encoder EAM58 series, which has good performance against mechanical damage, and can withstand higher axial and radial load.Various flanges could meet different requirements. The product adopts high precision and high stability chip to ensure the maximum single-turn resolution 19bit, which can meet the accuracy control requirement of field.

Features

- Various flanges available
- Waterproof seal promotes IP level
- 3*M12 connector output, convenient for installation and maintenance
- Protection class IP65
- Metal housing for shock resistance
- Conforming to industrial protocol and programmable

Mechanical Characteristics

Shaft diameter（mm)	Φ6g6/Φ8g6/Φ10g6
Hollow shaft diameter（mm)	Φ8H7/Φ10H7/Φ12H7/Φ15H7
Protection class	IP65
Speed（r/m)	6000
Max.load capacity of shaft	
Axial	80N
Radial	160N
Shock resistance	50G/11ms
Vibration resistance	10G 10~2000Hz
Service life of bearing	10^9 revolution
Rotor moment of inertia	$1.8\times10^{-6}kgm^2$
Starting torque	<0.01Nm
Body material	AL-alloy
Housing material	ZnAl-alloy
Operating temperature	-40°C~~+80°C
Storage temperature	-45°C~~+85°C
Weight	360g--750g

Electrical Characteristics

Interface	Profinet
Programming function	Resolution, speed value, counting direction, preset value
Transmission speed	10/100 Mbit
Interface period time	>1ms
No. of turns	4096 (12 bits)
Single-turn resolution	8192 (13 bits，MAX.19bits)
Supply voltage	10~30 Vdc
Current consumption	≤230mA-10V DC, ≤100mA-24V DC
Total power	≤2.5 W
Start time	<250ms
Precision (INL)	±0.0439°

Electrical connection

Connection direction	Radial
Bus interface 1	M12, female, 4-pin, D-coded
Power interface	M12, male, 5-pin, A-coded
Bus interface 2	M12,female, 4-pin, D-coded

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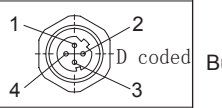
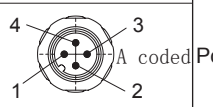
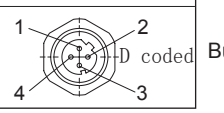
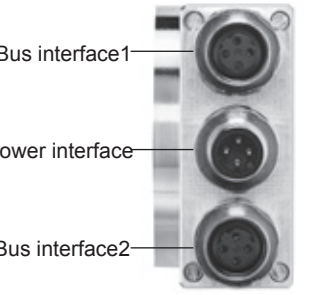
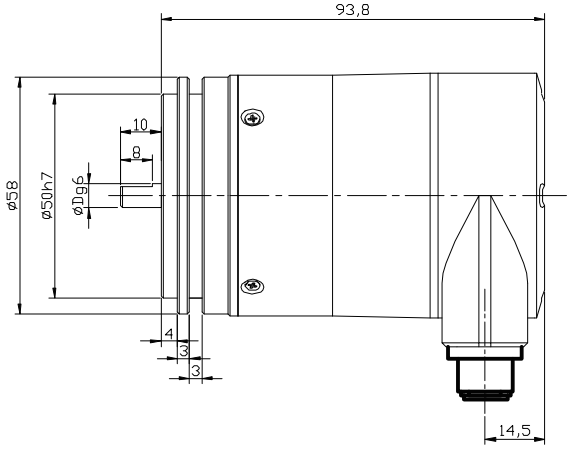
Terminal Configuration

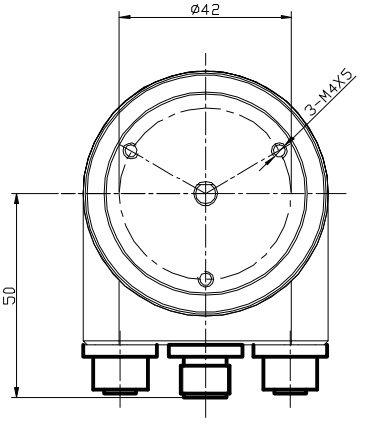
Function	M12 connector					
Bus interface1	Signal	Data sending+	Data receiving+	Data sending -	Data receiving -	
	Abbreviation	TxD+	RxD+	TxD-	RxD-	
	Pin	1	2	3	4	
Power interface	Signal	Voltage +	–	Voltage –	–	
	Abbreviation	+ V	–	0 V	–	
	Pin	1	2	3	4	
Bus interface2	Signal	Data sending+	Data receiving+	Data sending -	Data receiving -	
	Abbreviation	TxD+	RxD+	TxD-	RxD-	
	Pin	1	2	3	4	



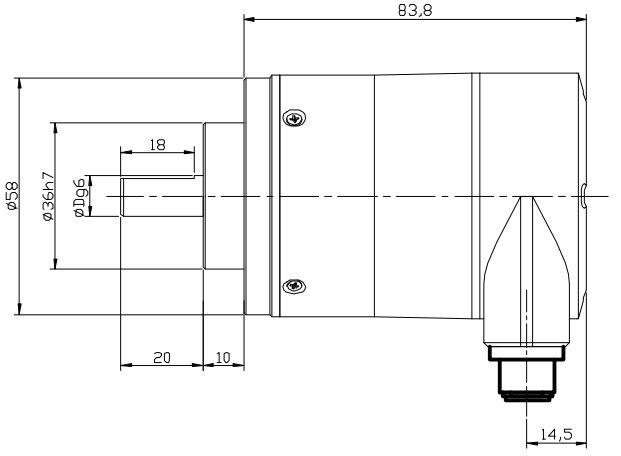
Dimension

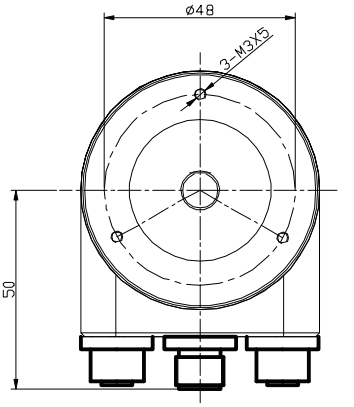
EAM58B





EAM58C





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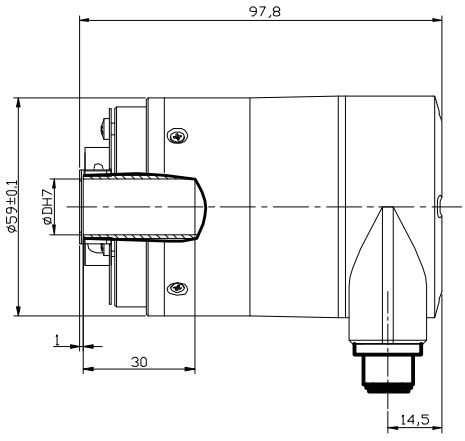
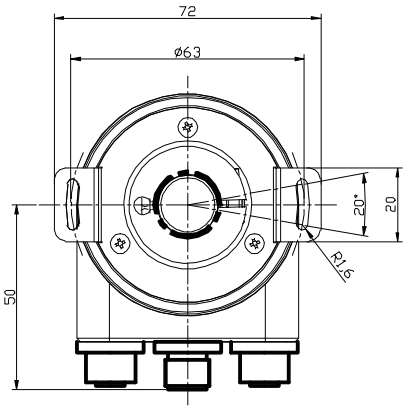
EAM58W





Order Code

EAM 58 C 10 – B F6 X T R – 4096/8192 PNND

Profinet protocol absolute multi-turn encoder

Resolution

Standard 4096/8192

Outlets direction

R=Radial

Types of connection

T=Integrated bus coupler terminal with 3 of M12 socket

Output logic

X=Nonsense

Interface& Supply voltage

F6=General industrial Ethernet interface 10-30V DC

Output code

B=Binary

Shaft diameter

6=Φ6g6mm
58B可选
8=Φ8g6mm
10=Φ10g6mm

8 =Φ8H7mm
10=Φ10H7mm
12=Φ12Hmm
15=Φ15H7mm

Flange type

B=Synchronous flange
C=Clamping flange

W=Hollow shaft flange , double-wing spring mounting

Housing dimension

58=Φ58 Flange

Series

EAM =Profinet protocol absolute multi-turn encoder

Matching connectors code

Power supply connector	TMSP 12F-F4
Bus input connector	TMSP12FD-M4
Bus output connector	TMSP12FD-M4