

## Profinet Absolute Multiturn Encoder



### Description

Profinet absolute multiturn encoder has good performance against mechanical damage and can withstand higher axial and radial load. Various flanges could meet different requirements, conforming to Profinet IO protocol to ensure the max. resolution of 262144 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 × LED status indicator, easy-to-read monitoring status
- 3 × M12 connector, fast connection
- PROFINET IO/RT has the function of intelligent diagnosis and high-speed data transmission
- Application parameters are configured via software to facilitate debugging and maintenance
- High speed data transmission, update time  $\leq 1\text{ms}$

### Mechanical parameters

Shaft diameter	$\Phi 6\text{g}6\text{ mm}$ -58B	$\Phi 10\text{g}6\text{ mm}$ -58C
Hollow shaft diameter	$\Phi 10\text{H}7\text{ mm}$	-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. $1.8 \times 10^{-6}\text{ kgm}^2$	
Starting torque	$< 0.05\text{ Nm}$	
Housing material	Al-alloy UNI 9002/5 -(D11S)	
Cover material	Al-alloy 6060	
Flange material	Al-alloy UNI 9002/5 -(D11S)	
Operating temperature	$-40 \dots +80\text{ }^\circ\text{C}$	
Storage temperature	$-45 \dots +85\text{ }^\circ\text{C}$	
Relative humidity/condensation	90%, Condensation not permitted	
Weight	$\sim 600\text{ g}$	

### Electrical parameters

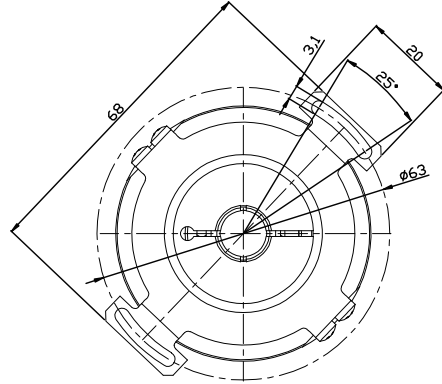
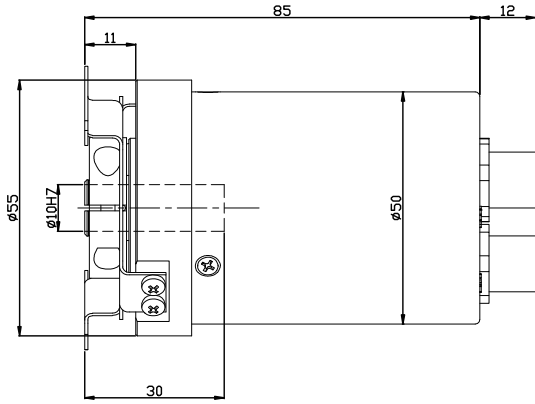
Max. revolution	4096 (12 bits)
Max. resolution	262144 (18 bits)
Supply voltage	$10 \dots 30\text{ VDC}$
Current consumption (no load)	200 mA
Max. rate	100 Mbits/s
Linearity	12 bits $\pm 1/2$ LSB
Interface	PROFINET IO/RT Class C
Data transmission rate	10/100 Mbit/s
Encoder sub-protocol	V4.1 Class3



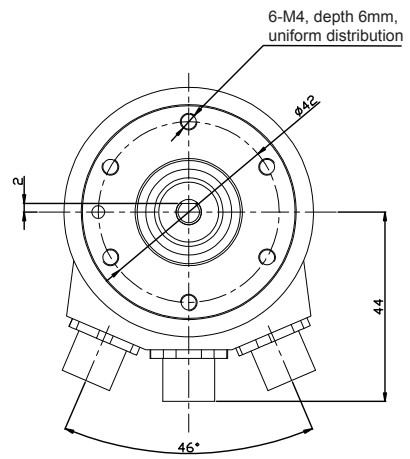
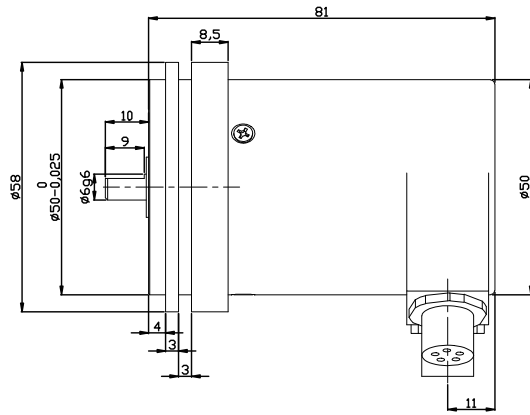
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## Dimensions (mm)

EAM58W Axial



EAM58B Radial



EAM58C Radial

