CANopen Interface Absolute Singleturn Encoder EAC58

Description

CANopen interface absolute singleturn encoder EAC 58 series is used in industrial environments with special requirements. It has outstanding performance in withstanding mechanical damages and higher axial and radial loads. It complies with CANopen protocol and has a max. resolution up to 8192, and is programmable based on requests.

Features

- Waterproof seal provides higher IP level
- Pre-screwed holes are for the convenience of customer
- Durable stainless steel shaft
- Metal housing for better shock resistance
- Protection class IP65

Mechanical Characteristic

Shaft diameter (mm)	Φ6g6/Φ10g6
Protection acc. to EN 60529	IP65
Speed (r/m)	6000
Max. load capacity of the shaft	
Axial load capacity	60N
Radial load capacity	120N
Shock resistance	50G/ 11ms
Vibration resistance	10G 10...2000Hz
Bearing life	10^9 revolution
Rotor moment of inertia	$1.8\times10^{-6}kgm^2$
Starting torque	<0.01Nm
Body material	AL-alloy
Housing material	AL-alloy
Operating temperature	-40℃...+80℃
Storage temperature	-45℃...+85℃
Weight	480g

Resolution 8192

Electrical Characteristics

Supply voltage (Ub)	10 ... 30V
Operating current	Max. 0.29A
Linearity	±1/2 LSB (±1 LSB when 13bit)
Code type	Binary
Interface	CAN HIGH-Speed to ISO/DIS 11898, Basic and Full-CAN
	CAN specification 2.0 B
Protocol	CANopen Profile DSP 406 with additional function
Baud rate	Programmable via DIP switches 10 ... 1000 Kbits/s
	CAN DNET 125/250/500 kbit/s
Basic identifier/ node number	Programmable via DIP switches
Conforms to CE requirements acc.to EN 61000-6-1, EN 61000-6-4 , EN 61000-6-3 and EN 61000-4-8	
Conforms to international Electromagnetic Standards EN 61000-4, 5 CANopen also conforms to the additional properties as described in DSP406	

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Electrical Characteristics

The CANopen Equipment Specifications describe the functionality of the communication and of that part of the CANopen fieldbus system specific to the manufacturers.
In addition, using devices of CANopen interface offers the advantage of future-ready expandability, which includes the following functions:

The following functionality is integrated	Programmable Parameters:
CAN-LED for Bus status	Polling mode or auto mode, direction
CAN-LED for operating mode	Resolution per revolution, preset value and offset
Additional Event Mode	

Terminal Assignment

D1-D2：Address Setting switch

D1	Ten's place	Address NO. 0...9
D2	Unit's place	Address NO. 0...9

Example: D1=1,D2=1, the address of the encoder is 11.

Address setting

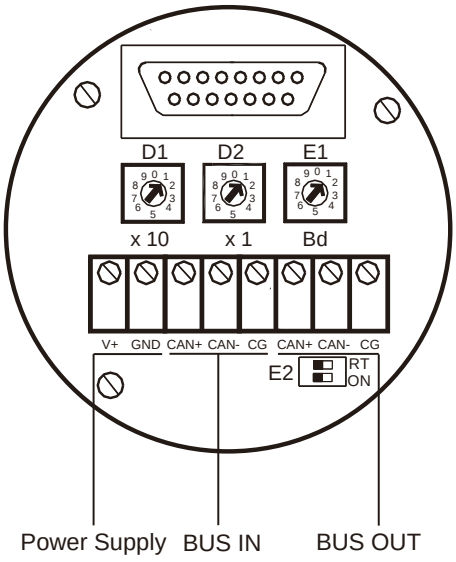
Terminal setting

E2：Line close switch

The bus is closed when setting the two switches ON, 120Ω.

E1：Baud setting switch

DIP	Baud
0	1M
1	800K
2	500K
3	250K
4	125K
5	100K
6	50K
7	20K



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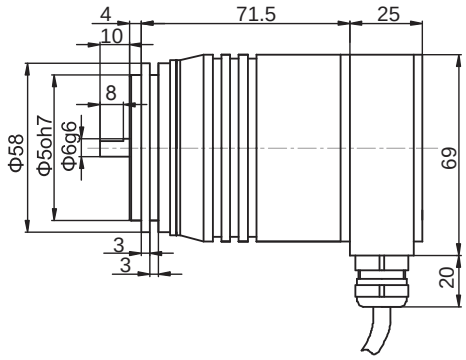
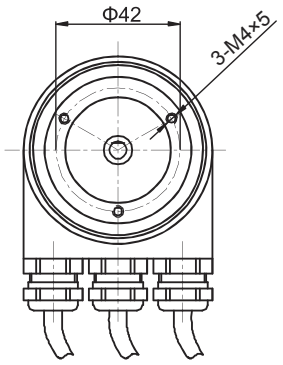
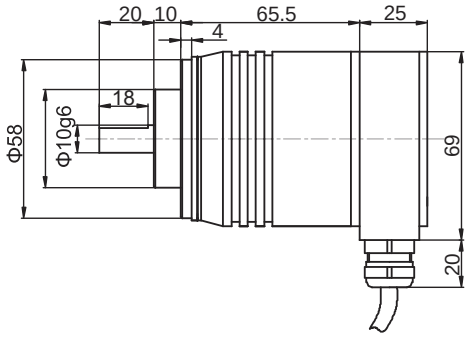
Dimension (mm)

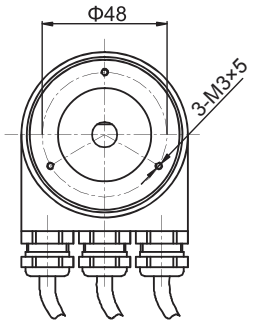
EAC58B





EAC58C





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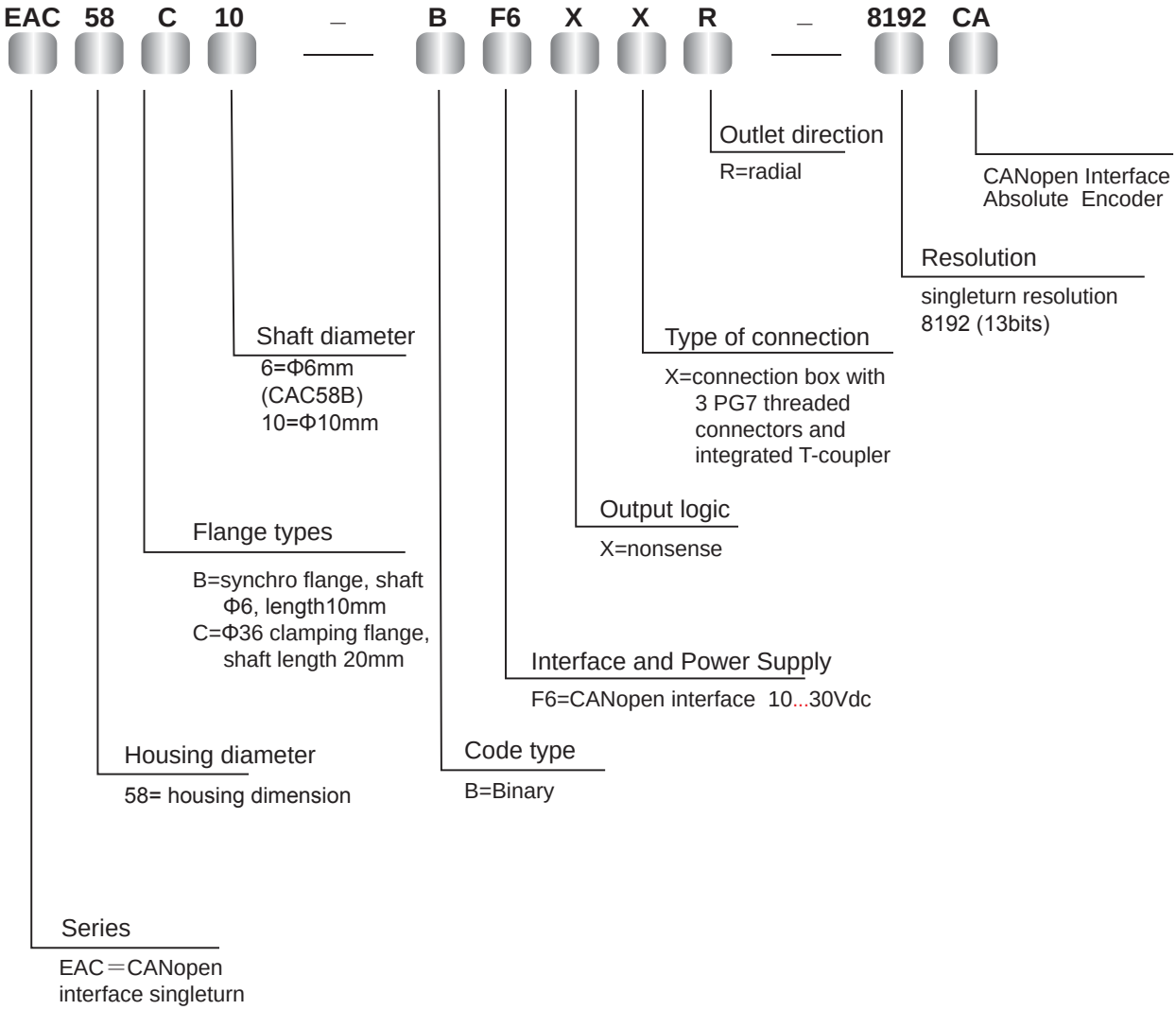
Order Code:



Including：

EDS- for documentations and user manuals please see enclosed CD.

Connect BUS-IN and BUS-OUT to the encoder using a suitable terminal wiring box.

This sample is for reference only, please subject to the actual products.