CANopen Interface Absolute Singleturn Encoder CAC58

Application

Canopen absolute singleturn enoder CAC58 series,used in special industry enviroment, have perfect anti-mechanical damage ability, and can afford higher axial & radial load according to canopen protocol,Max resolution is 8192, programmable depending on site applications.

Characteristics

- Water-proof seal promotes IP level
- Pre-screw hole convenient for installation
- stainless steel
- Metal crust, perfect anti-shock ability
- Protect level IP64

Mechanical Characteristics

Shaft（mm）	Φ6g6/Φ10g6
Protection acc. to EN 60 529	IP65
Speed（r/m）	6000
Max load capacity of 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	-20°C~~+80°C
Storage temperature	-25°C~~+85°C
Weight	480g

Provided Resolution：8129

Electrical Characteristics

Supply voltage (U_b)	10 ... 30V
Power consumption	Max 0.29A
Linearity	±1/2 LSB (±1 LSB when 13 position)
Codeart	Binary
Interface	CAN HIGH-Speed to ISO/DIS 11898,Basic and
	Full-CAN;CAN specification 2.0 B (11Bit)
Protocols	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	Programmalbe via DIP switches
Conforms to CE requirements acc. to EN 61000-6-1,EN61000-6-4, EN61000-6-3 and EN61000-4-8	
Performance against magnetic influence acc. to EN61000-4,5	

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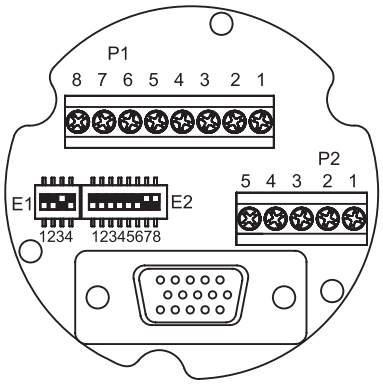
Electrical Characteristics

The CANopen Device Profiles describe the functionality of the communication and of that part of the	
CANopen fieldbus system specific to the manufacturer. In addition, using devices that interface with	
CANopen offers the advantage of acquiring systems today that are prepared for the needs of the future.	
The following functionality is integrated:	The following parameters can be programmed:
CAN-LED for Bus status	Polling mode or auto mode and directiion
CAN-LED for operating mode	Resolution per revolution
Additional Event Mode	Preset value and offset.

Terminal Assignment(M12)：

P1:Terminal wiring(IN)

Ub	1	External power supply, 10～30V
GND	2	External power supply 0V
CAN+	3	CAN+
CAN-	4	CAN-
0V	5	CAN Ea
GND1	6	Rotation direction and external zero setting
CLR	7	External zero setting signal, 10-30V, take GND1 as reference
LH	8	Block current signal, 10-30V, take GND1 as reference



P2:Terminal wiring(OUT)

Ub	1	External power supply，10～30V
GND	2	External power supply 0V
CAN+	3	CAN+
CAN-	4	CAN-
0V	5	CAN Ea

E1:Switch Setting

DIP1	DIP2	DIP3	Baud rate	DIP4
0	0	0	1000Kbps	0 Take anti-clockwise rotation as positive
1	0	0	800Kbps	1 Take clockwise rotation as positive(default)
0	1	0	500Kbps	
1	1	0	250Kbps	
0	0	1	125Kbps(default)	
1	0	1	100Kbps	
0	1	1	50Kbps	
1	1	1	20Kbps	

E2:Switch Setting

DIP1	DIP2	DIP3	DIP4	DIP5	DIP6	DIP7	Node address	DIP8
0	0	0	0	0	0	1	64	terminal resistance
LSB	LSB+1	LSB+2	. . . . .	MSB-2	MSB-1	MSB	(default)	120Ω

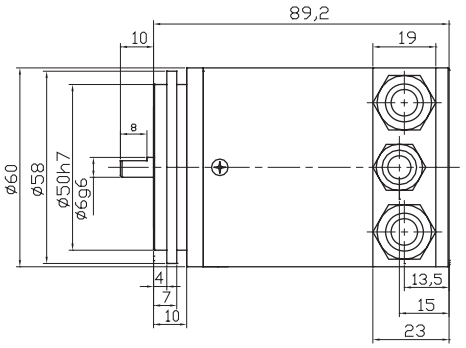
LSB: Low Significant Bit MSB: Most Significant Bit

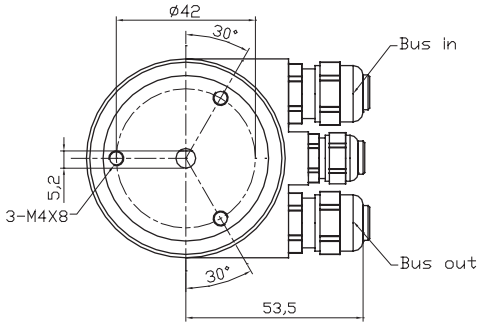
Cable

Signal	$+U_b$	GND	CAN+	CAN-	0V
Color	RD	BK	WH	BU	GY

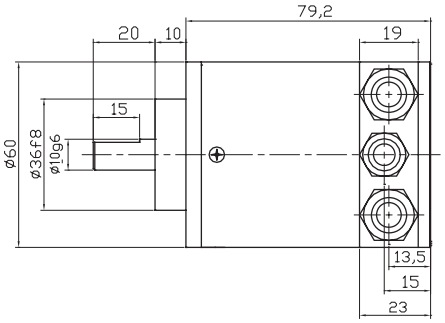
Dimensions

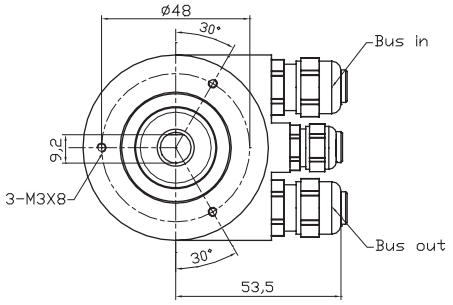
CAC58B



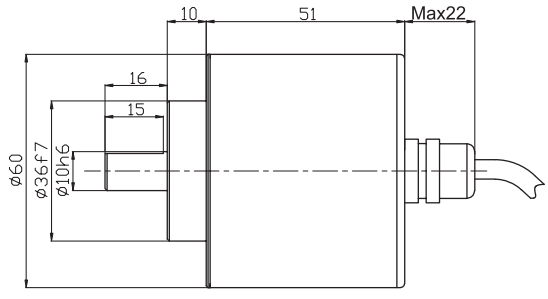


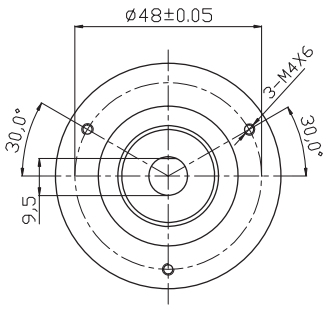
CAC58C





CAC58C(PA output)





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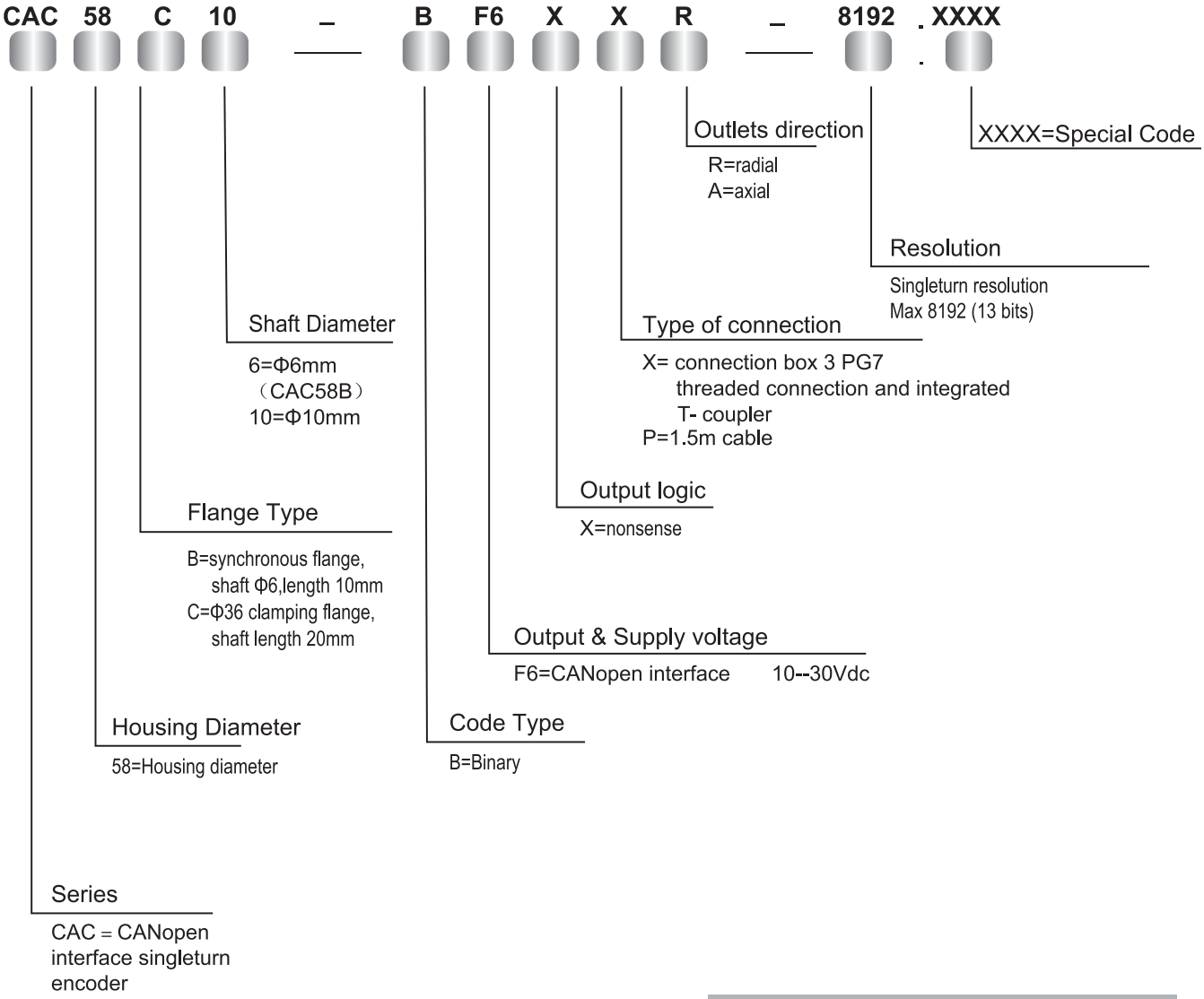
Order Code:



Includes:
EDS-file and documentation on CD.

With the terminal box, BUS-IN and BUS-OUT are connected to the encoder.

This sample is for reference only, take products as the standard.