

# Absolute encoders - CANopen

End Hollow Shaft - Through Hollow Shaft  
Single turn 12...19 bit,  
Multi turn 4...32bit

## FNC AC 58E Series



### Features

- Encoder single - or multiturn / CANopen
- Magnetic Sensing (Optional optical sensing)
- Optical Single turn Resolution: 12...19 bit (optional)
- Magnetic Single turn Resolution: 9...13bit
- Multi turn 4...32bit
- Clamping flange or synchro flange
- Extreme resistance to shock and vibration
- Permanent check of code continuity
- Resolution end zero point programmable

### Technical data - electrical ratings

Voltage supply	5.5VDC to 30VDC 4.75VDC to 5.5VDC
Protection:	Output short circuit protection. Reverse polarity protection ( except 5V version )
Consumption w/o load	≤100 mA (24 VDC)
Interface	CANopen CiA DSP 301 V4.01, DSP 305 V1.0, DSP 406 V3.1
Resolution (steps/turn)	up to 13bit
Absolute accuracy	±0.035°
Sensing method	Magnetic
Code	Binary
Code sequence	CW default, programmable
Programmable paramaters	Operating modes Total resolution Scaling Rotation speed monitoring
Interference immunity	DIN EN 61000-6-2
Emitted interference	DIN EN 61000-6-4
Approval	CE

### Accessories

#### Connectors and cables

CRM2312R M23 12 poles female connector or see page 160

#### Mounting coupling

See page 158

#### Mounting accessories

YY TEO spring or see page 156-157

### Technical data - mechanical design

Dimensions (flange)	ø58 mm
Shaft loading	≤40 N axial ≤60 N radial
Protection DIN EN 60529	IP54, IP65
Operating speed	≤10000 rpm
Starting torque	≤0.025 Nm (IP 65)
Materials	Housing, Flange : Aluminium Shaft : Stainless steel
Shaft diameter:	6, 8, 10, 12, 14 mm ( other diameters on request )
Bearings lifetime:	2x10 <sup>9</sup> rev. at 100% of full rated shaft load (minimum)
Operating temperature	-40...+110 °C -40 °C up to +120 °C (Storage)
Weight approx.	250 g

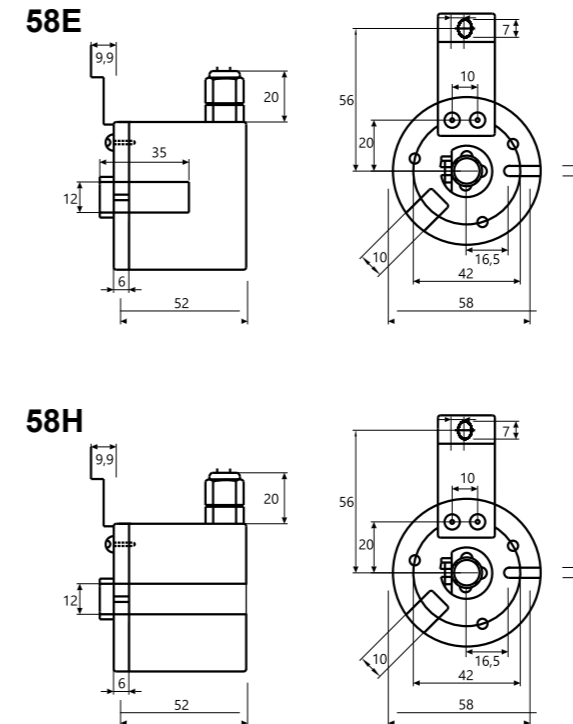
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Mechanical Dimensions  
Cable/Connector Wiring, Part Number

## FNC AC 58E Series



### Mechanical Dimensions



### Terminal assignment

Conn.	Signals	Description
Pin 1	n.c.	–
Pin 2	+Vs	Supply voltage
Pin 3	CAN_GND	CAN Ground
Pin 4	CAN_H	Bus (dominant High)
Pin 5	CAN_L	Bus (dominant Low)

### Encoder Part Number

