FNC AS 58E & 58H Series

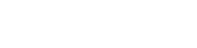
operation for maximum interference immunity. Impulse duration >2 ms. Include termination resistor R=120 Ohm between Data+ and Data- on control side.

UP/DOWN counting direction input. This input is standart on High. UP/DOWN

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

# FNC AS 58E & 58H Series

88





## Features

- Encoder single or multiturn / SSI BISS
- Magnetic Sensing (Optional optical sensing)
- Optical Single turn Resolution: 12...19 bit
- Magnetic Single turn Resolution: 9...13bit
- Multi turn 4...32bit
- Clamping flange or synchro flange
- Permanent check of code continuity
- Extreme resistance to shock and vibration
- Encoder with electronic reset

Technical data - electric	al 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	≤50 mA (24 VDC)			
Interface	SSI or BiSS			
Resolution (steps/turn)	Magnetic: 14 bit Optic: 21 bit			
Absolute accuracy	Magnetic: ±0,1° Optic: ±0,01°			
Optoelectronic life time	100.000 (min)			
Code	Gray or binary			
Inputs	SSI differential clock Direction Electronic zero setting Chip select (Optional)			
Output frequency	up to 2MHz (SSI) up to 10MHz (BiSS)			
Output circuit	SSI data linedriver RS485			
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 206

## Mounting coupling

See page 204

#### Mounting accessories

YY TEO spring or see page 202-203

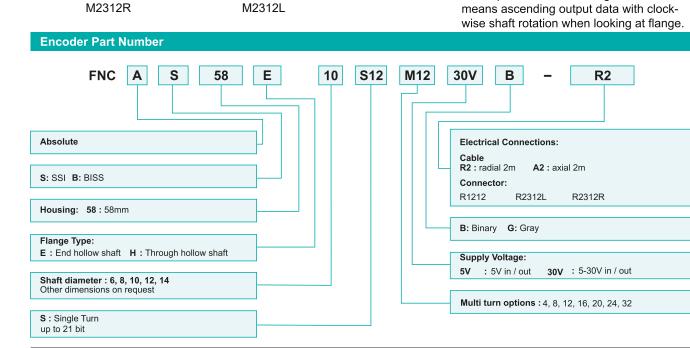
Technical data - mechanical design				
Dimensions (flange)	ø58 mm			
Shaft loading	≤140 N axial ≤240 N radial			
Protection DIN EN 60529	IP54, IP65			
Operating speed	≤10000 rpm			
Starting torque	≤0.025 Nm (IP 67)			
Materials	Housing, Flange : Aluminium Shaft : Stainless steel			
Shaft diameter:	6, 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			

. and a stage and	
clock T=1/f clock bit n \bit n-1\frac{1}{2}	tp //- tm //- // bit 3 \ bit 2 \ \ bit 1 \ //-
Clock frequency,f	502000 kHz for SSI up to 10MHz for BISS
Code	Binary or gray
Status and parity bit	On request
Monoflop time tm	>15µs

Programmable at factory

Clock time out

Mechanical Dimensions		Cable / Co	nnector M23 m	nale			
<b>8E</b> 10 M4 X 2 M4 X 120° X 3	48,37	Connector	Core colour	Signals	Description		
	- <u>5,20</u>	Pin 1	blue	Clock+	Clock signal		
R3 (6 )		Pin 2	blue-black	Clock-	Clock signal		
		Pin 3	orange	Data+	Data signal		
+0,04 Ø 10 +0,02	8 8 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Pin 4	orange-black	Data-	Data signal		
		Pin 5	gray	Zero	Zero setting input		
▼5,75	5,75	Pin 6,7,8,9	_	n.c.	_		
		Pin 10	gray-black	up/down	direction input		
		Pin 11	white	0 V	GND		
Д		Pin 12	brown	+Vs	Supply voltage		
H	1	Screen: not connected to housing					
	60,95	Cable data: 4 x 2 x 0.14 mm <sup>2</sup>					
5.40	<u> </u>	Terminal significance					
		+Vs	Encoder su	upply voltage	).		
<b>(a)</b>		0 V	Encoder gr	ound conne	ction relating to +Vs.		
		Data+	Positive da	ta output.			
		Data-	Negative d	ata output.			
		Clock+	Positive SS	SI clock inpu	t.		
M4 X 6 ADET		Clock-	Negative S	SI clock inp	ut.		
		Zero	Input for setting a zero point anywhere within the encoder resolution. The zero setting operation is triggered by a Low impulse. Connect to +Vs after setting				



Direction

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