FNC AS 40 S Series

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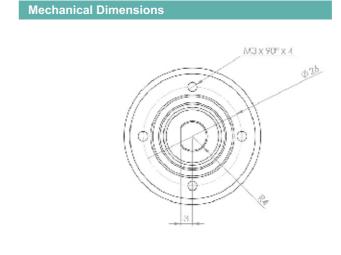
Features

- Encoder single or multiturn / SSI BISS
- Magnetic Sensing
- Magnetic Single turn Resolution: 9...14 bit
- Multi turn 0...32 bit
- Clamping flange or synchro flange
- Permanent check of code continuity
- Extreme resistance to shock and vibration
- Encoder with electronic reset

Technical data - electri	cal ratings
Voltage supply	8VDC to 30VDC
Protection:	Output short circuit protection. Reverse polarity protection (except 5V version)
Consumption w/o load	≤80 mA (24 VDC)
Interface	SSI or BiSS
Resolution (steps/turn)	up to 14bit
Absolute accuracy (magnetic)	±0.35°
Optoelectronic life time	100.000 (min)
Code	Gray or binary
Inputs	SSI differential clock Direction Electronic zero setting
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

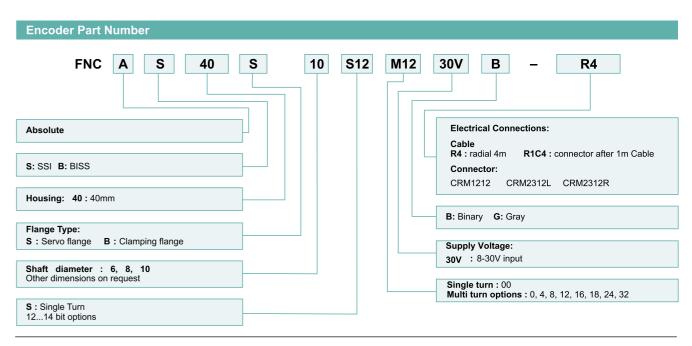
Technical data - mechanical design		
Dimensions (flange)	ø40 mm	
Shaft loading	≤20 N axial ≤40 N radial	
Protection DIN EN 60529	IP 67	
Operating speed	≤10000 rpm	
Starting torque	≤0.001 Nm (IP 67)	
Materials	Housing, Flange : Aluminium Shaft : Stainless steel	
Shaft diameter:	6, 8, 10 mm (other diameters on request)	
Bearings lifetime:	2x10 ⁹ rev. at 100% of full rated shaft load (minimum)	
Operating temperature	-40+90°C -40 °F +180 °F	
Weight approx.	250 g	

Pulse Diagram	
clock bit n (bit n-1)	tp //- tm
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
Clock time out	Programmable at factory



-	20	47,70	
0.8 -0.03		Ø33 Ø36	
	2 2/d)	2,50	

Terminal significance		
+Vs	Encoder supply voltage.	
0 V	Encoder ground connection relating to +Vs	
Data+	Positive data output.	
Data-	Negative data output.	
Clock+	Positive SSI clock input.	
Clock-	Negative SSI clock input.	
Direction	UP/DOWN counting direction input. This input is standart on High. UP/DOWN means ascending output data with clockwise shaft rotation when looking at flange.	
Preset	Parameter for setting the encoder to a requested position value assigned to a defined shaft position of the system. The offset of encoder zero point and mechanical zero point is stored in the encoder.	
Note	If needed, Include termination resistor R=120 Ohm between Data+ and Data- on control side.	



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