FEQAC Automation Control



Incremental encoders

Mechanical Dimensions
Cable/Connector Wiring, Part Number

FNC 30S Series



6



Feature

- Industry 30 mm special size, servo flange and clamp flange
- Robust mechanical and electrical construction
- Protection up to IP67
- Up to 2500 PPR max.
- <300 kHz frequency

PPR Options:

1 to- 1024 all PPR, - 360 - 500 - 512 - 720 - 1000 - 1024 1250 - 1440 - 2000 - 2048 - 2500

Technical data - electrical ratings					
Voltage supply	4.75VDC to 30VDC 4.75VDC to 5.5VDC				
Protection:	Output short circuit protection. Reverse polarity protection (except 5V version)				
Consumption w/o load	≤30 mA (24 VDC)				
Resolution (steps/turn)	12500				
Reference signal	Zero pulse, width 90° 180°, 360° optional				
Optoelectronic life time	100.000 (min)				
Output frequency	>200 kHz				
Output signals	90° shifted A and B, Z + inverted				
Output circuit	Linedriver/RS422 Push-pull short-circuit proof NPN Open Collector				
Interference immunity	DIN EN 61000-6-2				
Emitted interference	DIN EN 61000-6-4				
Approval	CE				

Technical data - mechan	ical design
Dimensions (flange)	ø30 mm
Shaft loading	≤20 N axial ≤30 N radial
Protection DIN EN 60529	IP54, IP65
Operating speed	≤10000 rpm
Starting torque	≤0.01 Nm (IP 67)
Materials	Housing: stainless steel Flange: stainless steel Shaft: stainless steel
Shaft Diameter:	4, 6, 8 mm (other diameters on request)
Bearings lifetime:	2x10 ⁹ rev. at 100% of full rated shaft load (minimum)
Operating temperature	-20+85 °C
Storage temperature	-30 °C up to +90 °C
Weight approx.	130 g

Accessories

Connectors and cables

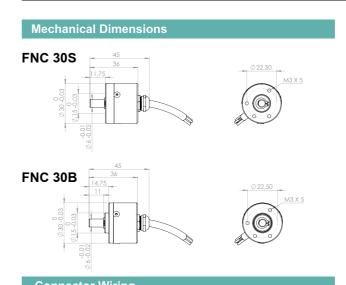
CRM1204 M12 4 poles female connector or see page 160

Mounting coupling

SK240606 plastic or see page 158

Mounting accessories

YY RST Spring or see page 156-157

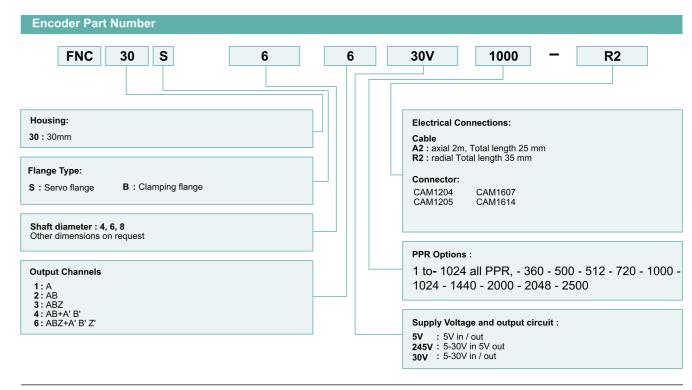


Confidence Willing									
Connector Type	+Vcc	GND	Α	A'	В	В'	z	Z'	Shield
CRM1204	1	2	3		4				o.r.
CRM1205	1	2	3		4		5		o.r.
CRM1208	1	2	3	6	4	7	5	8	o.r.
CRM1212	1	2	3	6	4	7	5	8	o.r.
CRM1607	1	2	3		4		5		o.r.
CRM1614	Customer Specific					o.r.			

For further information please see page 64

Pulse Diagram
0° 90° 360°
A
\bar{A}
В
B IIIII
Z Rotation CW
Z
Viewed from shaft side

Cable Wir	ing		
Function	Color	Renk	Explanation
+VB	Brown	Kahve	Supply Voltage
GND	White	Beyaz	Ground
A	Green	Yeşil	A Channel
A'	Red	Kırmızı	A Inverted Channel
В	Yellow	Sarı	B Channel
В'	Pink	Pembe	B Inverted Channel
Z	Gray	Gri	Z Channel
Z'	Blue	Mavi	Z Inverted Channel
Shield	Black	Siyah	Shield



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