

Feature

- Industry 16 mm special size, servo flange
- Robust mechanical and electrical construction
- Protection up to IP67
- Up to 1024 PPR max.
- <300 kHz frequency</p>

PPR Options:

1 to 1024 All PPR, 2048, 4096

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)	11024		
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		

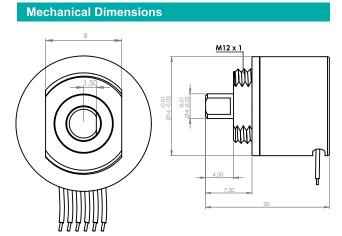
Technical data - mechanical design					
Dimensions (flange)	ø16 mm				
Shaft loading	≤20 N axial ≤30 N radial				
Protection DIN EN 60529	IP54, IP65				
Operating speed	≤10000 rpm				
Starting torque	≤0.01 Nm (IP 67)				
Materials	Housing: Aluminium Flange: Aluminium Shaft : Stainless steel				
Shaft Diameter:	up to 4 mm				
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				

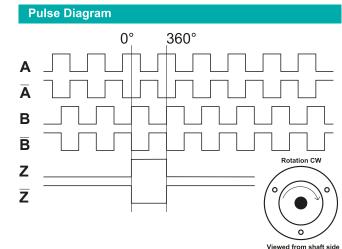
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Incremental encoders

Mechanical Dimensions
Cable/Connector Wiring, Part Number

FNC 16SV Series, Screw Type Micro Encoders

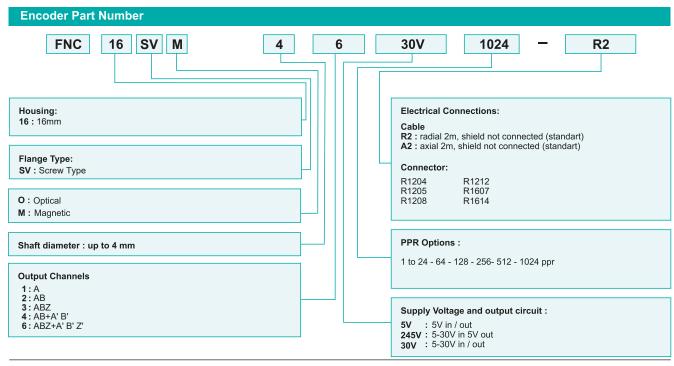




Connector Wiring									
Connector Type	+Vcc	GND	Α	A'	В	В'	z	Z'	Shield
CRM1204	1	2	3		4				o.r.
CRM1205	1	2	3		4		5		o.r.
CRM1208	1	2	3	6	4	7	5	8	o.r.
CRM1212	1	2	3	6	4	7	5	8	o.r.
CRM1607	1	2	3		4		5		o.r.
CRM1614	Customer Specific						o.r.		

For further information please see page 206

Cable Wiring						
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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