

Absolute encoders - SinCos

Integral bearing for integration in motors
Pulse Diagram



FNC SC2048 WHL Series, SinCos motor feedback



Features

- Compact robust motor integration design
- 1Vpp / 1PPR accurate position information
- 2048 PPR sin cosine accurate speed information
- Installation diameter 65mm
- 1:10 taper shaft
- IP67 protection class

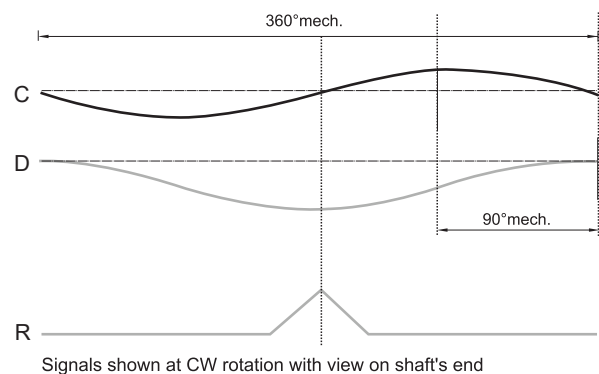
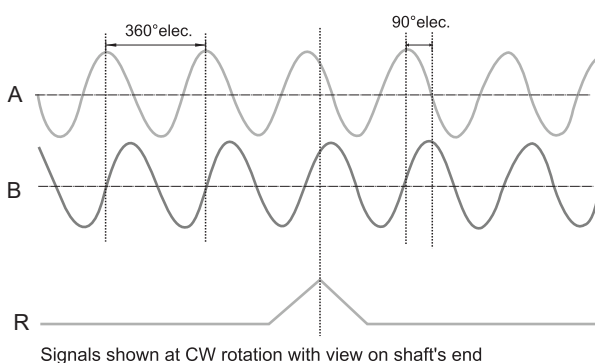
Technical data - electrical ratings

Voltage supply	4.75VDC to 7VDC
Protection:	Output short circuit protection. Reverse polarity protection
Consumption w/o load	≤120 mA (5 VDC)
Interface, Output	Sine cosine / 1 Vpp
Resolution (steps/turn)	2048
Absolute accuracy	±0.17°
Absolute angle error	0.087°
Output frequency	500 kHz (max.)
Output circuit	1 Vpp incremental Sin/Cos differential driver

Technical data - mechanical design

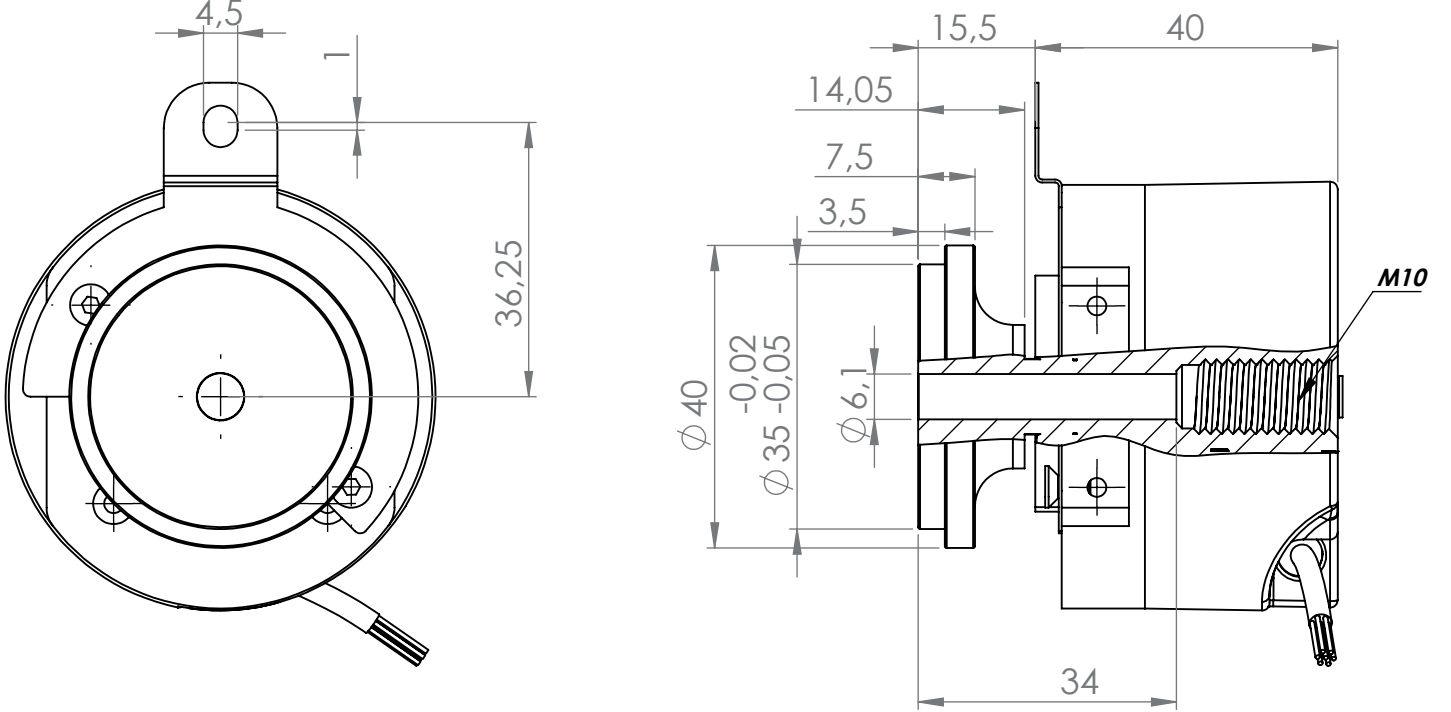
Dimensions (flange)	ø56 mm
Clamp mounting diameter	65 mm
Protection DIN EN 60529	IP 67
Operating speed	≤10000 rpm
Starting torque	≤0.03 Nm (IP 67)
Materials	Housing : Aluminium Flange : Aluminium Shaft : Stainless steel
Shaft specs	Taper shaft Ø 9.25 Taper 1:10
Operating temperature	-40...+110 °C
Storage temperature	-40 °C up to +120 °C
Weight approx.	250 g
Approval	CE

Pulse Diagram















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Mechanical Dimensions



Cable Wiring

	Function	FNC SC2048 WHL	
POWER	+VB		Brown Kahverengi
	GND		White Beyaz
INCREMENTAL SIGNALS	A		Green Yeşil
	A'		Green-Black Yeşil-Siyah
	B		Yellow Sarı
	B'		Yellow-Black Sarı-Siyah
	Z		Gray Gri
	Z'		Gray-Black Gri-Siyah
ABSOLUTE SIGNALS	C		Blue Mavi
	C'		Blue-Black Mavi-Siyah
	D		Orange Turuncu
	D'		Orange-Black Turuncu-Siyah
	Shield	Connected to housing	

Encoder Part Number

