

Commutation & Incremental encoders



FNC F22K Series



Magnet Holder

Features

- Designed for motor feedback applications
- Both A, B, Z incremental and U, V, W commutation signals
- Differential RS 422 incremental output signals.
- Non-contact magnetic technology
- 22 mm diameter body

Technical data - electrical ratings

Voltage supply	5VDC ± %5
Interface	ABZ ; Line Driver RS422 UVW ; (±24 mA output drive)
Resolution (steps/turn) :	up to 4096 CPR
Commutatiton Signals :	up to 16 pole

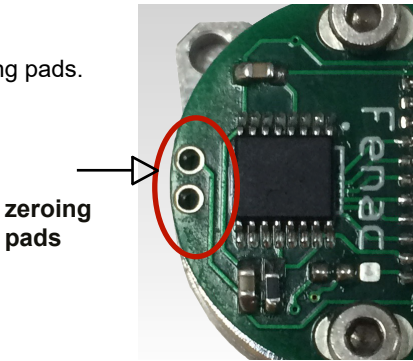
Technical data - mechanical design

Dimensions	ø22 mm
Mount Diameter	26 mm
Materials	Housing: Aluminium Cover: Aluminium
Magnet actuator	for integration into 3 mm shaft

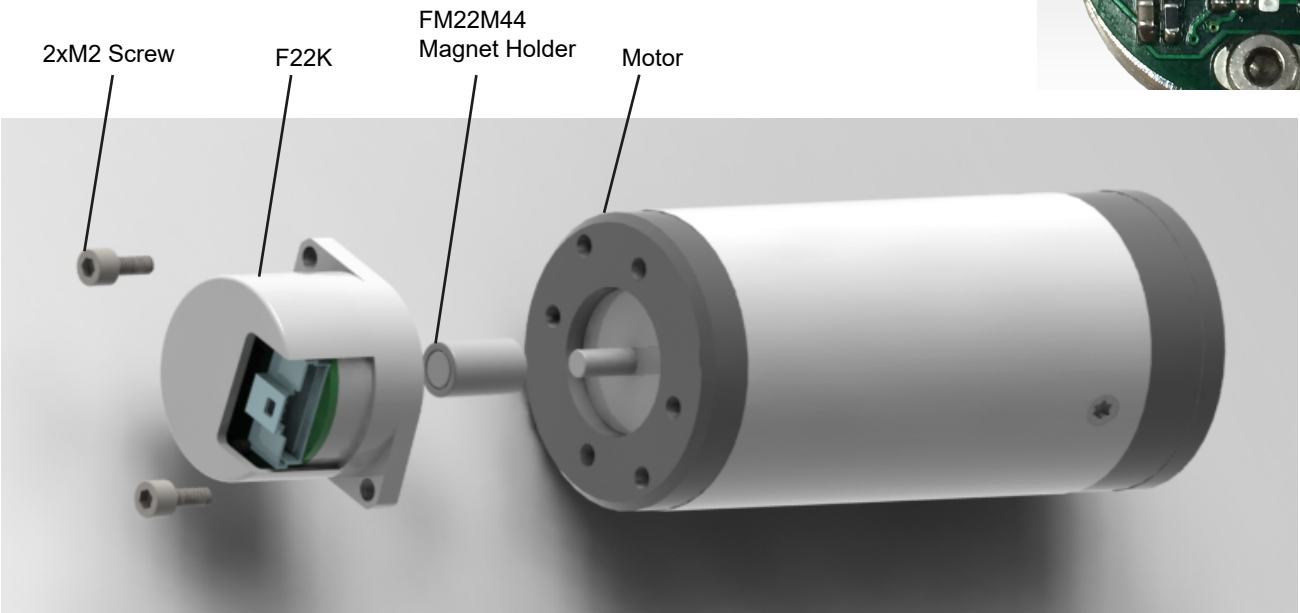
Installation Guide

Zero the UVW signals

First move the motor to the required zero UVW position. Short together the two zeroing pads.



zeroing pads



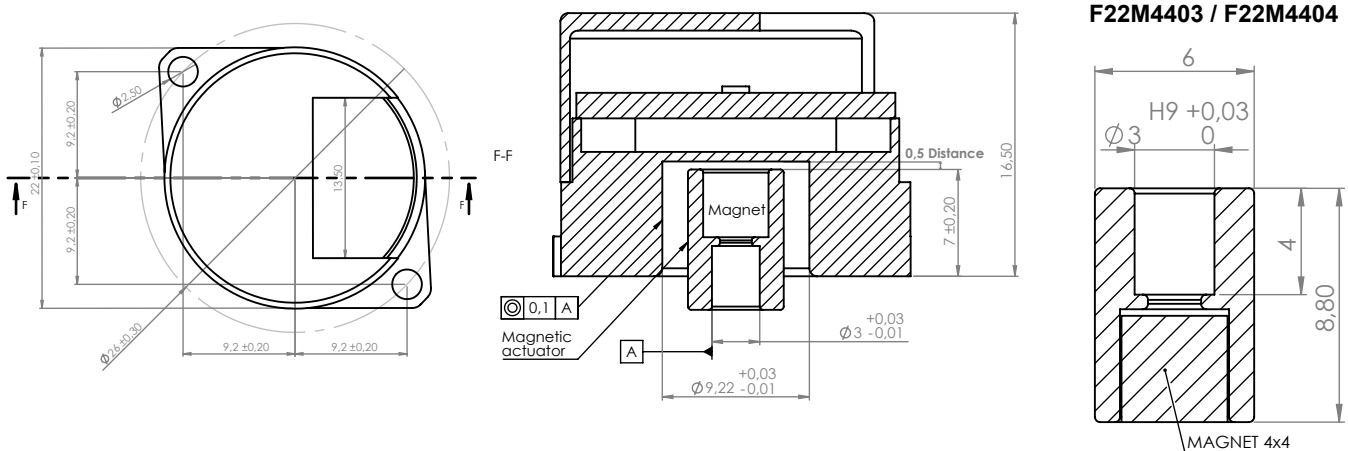
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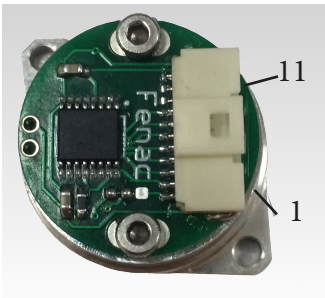
Mechanical Dimensions
Cable/Connector Wiring, Part Number

FNC F22K Series

Mechanical Dimensions

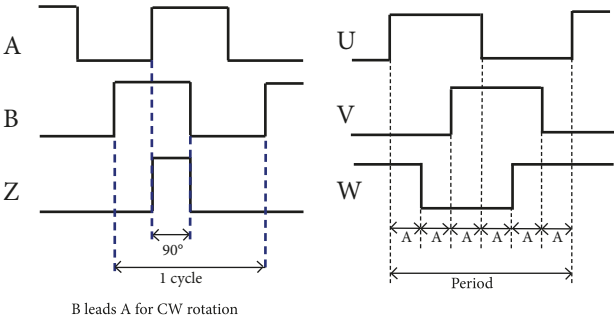


Connection



Function	Color	Pin
+VDC	Brown	2
GND	White	1
A	Green	8
A'	Red	7
B	Yellow	5
B'	Pink	6
Z	Gray	4
Z'	Blue	3
U	Black	9
V	Orange	10
W	Transparent	11

Pulse Diagram



Encoder Part Number

Commutation Version with Preset

F 22 K A 7 C - Z

Outer Diameter
22: 22 mm

Mounting Type
K : Ear Flange
S : Servo Flange

Commutation Signals
A : 2 pole
B : 4 pole
C : 6 pole
D : 8 pole
E : 10 pole
F : 12 pole
G : 14 pole
H : 16 pole

Input Options
Z : With zeroing pins

Connection Options
C : Cable
M * : Molex 501568-1107 Connector
* (mating with Molex 501330 -1100)

Resolution
7 : 128 ppr / 512 cpr
8 : 256 ppr / 1024 cpr
9 : 512 ppr / 2048 cpr
10 : 1024 ppr / 4096 cpr

Commutation Version without Preset

F 22 K A 1024 C

Outer Diameter
22: 22 mm

Mounting Type
K : Ear Flange
S : Servo Flange

Commutation Signals
A : 2 pole
B : 4 pole
C : 6 pole
D : 8 pole
E : 10 pole
F : 12 pole
G : 14 pole
H : 16 pole
N : No UVW

Connection Options
C : Cable
M * : Molex 501568-1107 Connector
* (mating with Molex 501330 -1100)

Resolution
1 to 4096 All ppr options available

Magnet Holder

F 22 M 44 03

03 : 3 mm motor shaft hole
04 : 4 mm motor shaft hole