

FNC F229B15 Series



Features

- Designed for motor feedback applications
- One period sincos signals (Differential 4 Vpp signals)
- A, B, Z incremental
- U, V, W commutation signals
- Differential RS 422 incremental output signals.
- Non-contact magnetic technology
- 22 mm diameter body

Technical data - electrical ratings for sincos out

Voltage supply	5VDC ± %5
Interface	4 Vpp Sine and cosine
Resolution (steps/turn) :	One per revolution

Technical data - electrical ratings for incremental +UVW

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

Connection for sincos out

Function	Color
+5V	Red
GND	Black
Sin+	Orange
Sin-	Orange-White
Cos+	Blue
Cos-	Blue-White

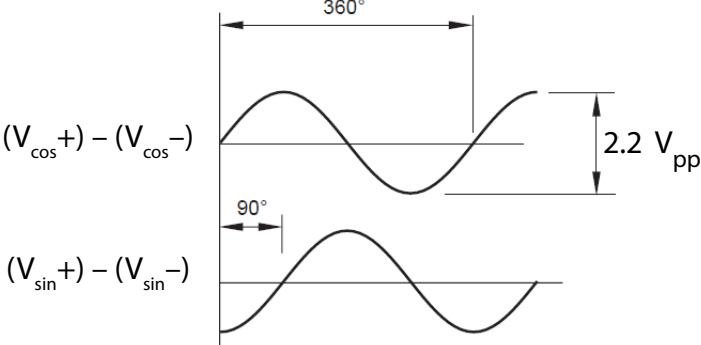
Connection for incremental out + UVW

Function	Color
+5V	Brown
GND	White
A+	Green
A-	Red
B+	Yellow
B-	Pink
Z+	Gray
Z-	Blue

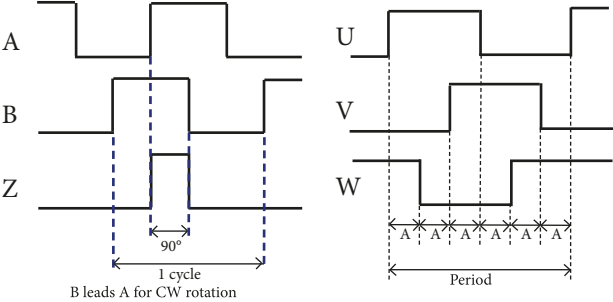
Technical data - mechanical design

Dimensions	ø22 mm
Mount Diameter	29 mm
Materials	Housing: Aluminium Cover: Aluminium
Magnet actuator	for integration into 6 mm shaft

Pulse Diagram for sincos out

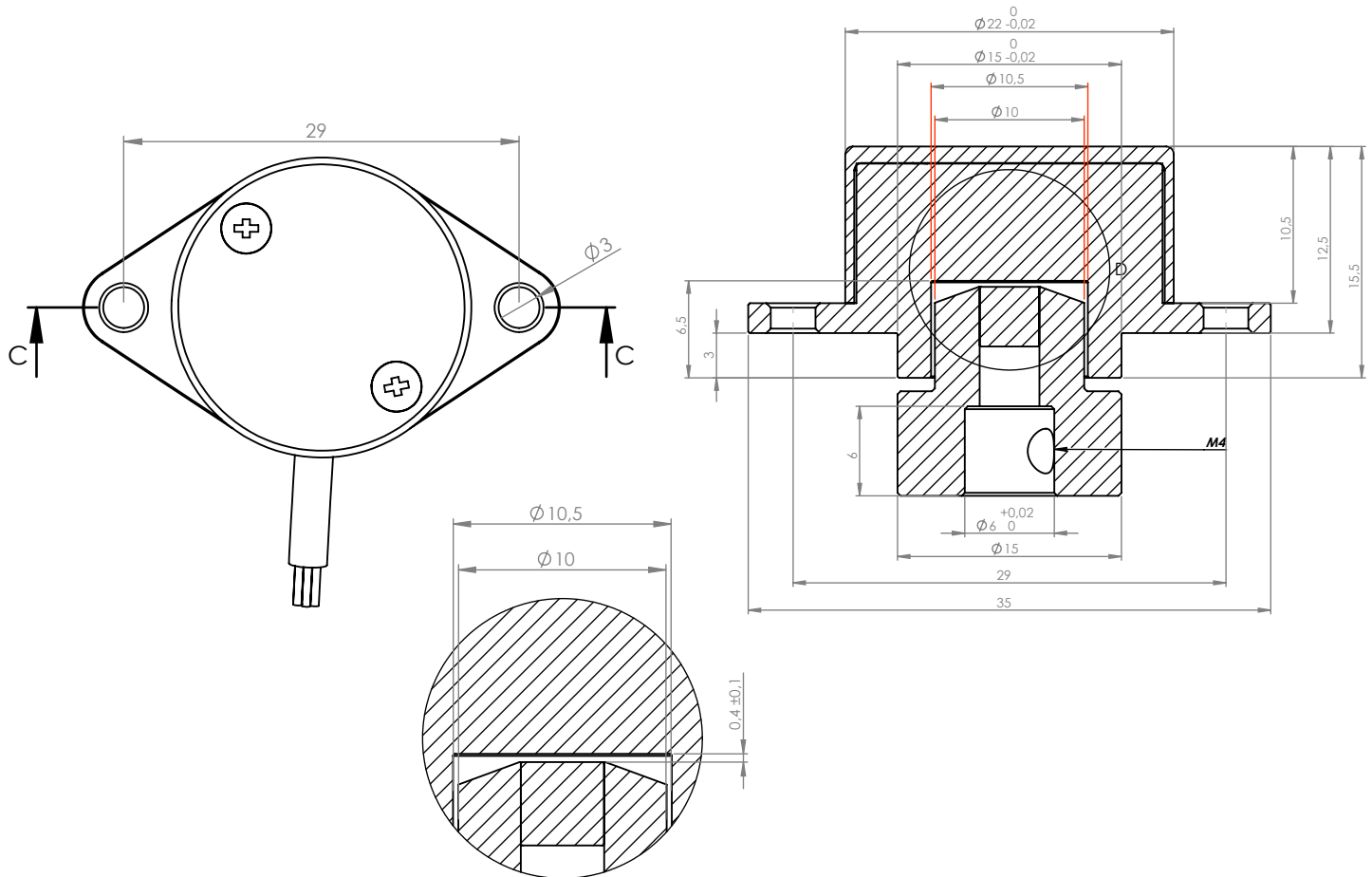


Pulse Diagram for incremental out + UVW



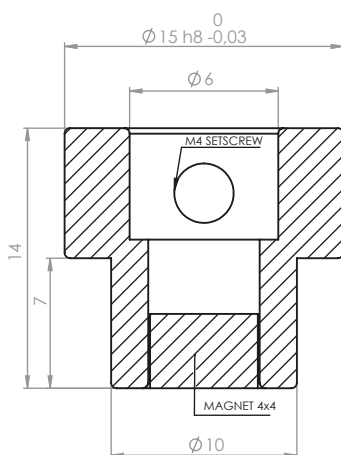
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Mechanical Dimensions

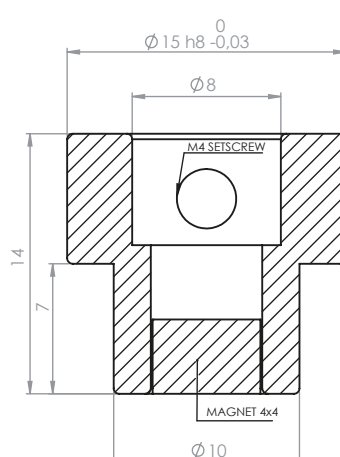


Magnetic Actuator

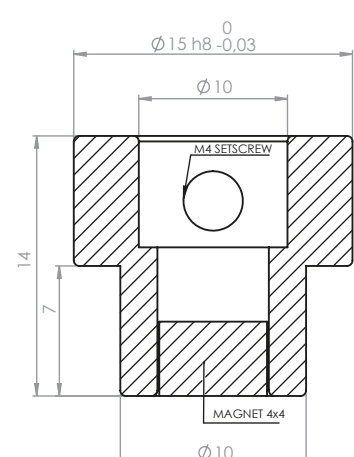
F229 MHB0644



F229 MHB0844



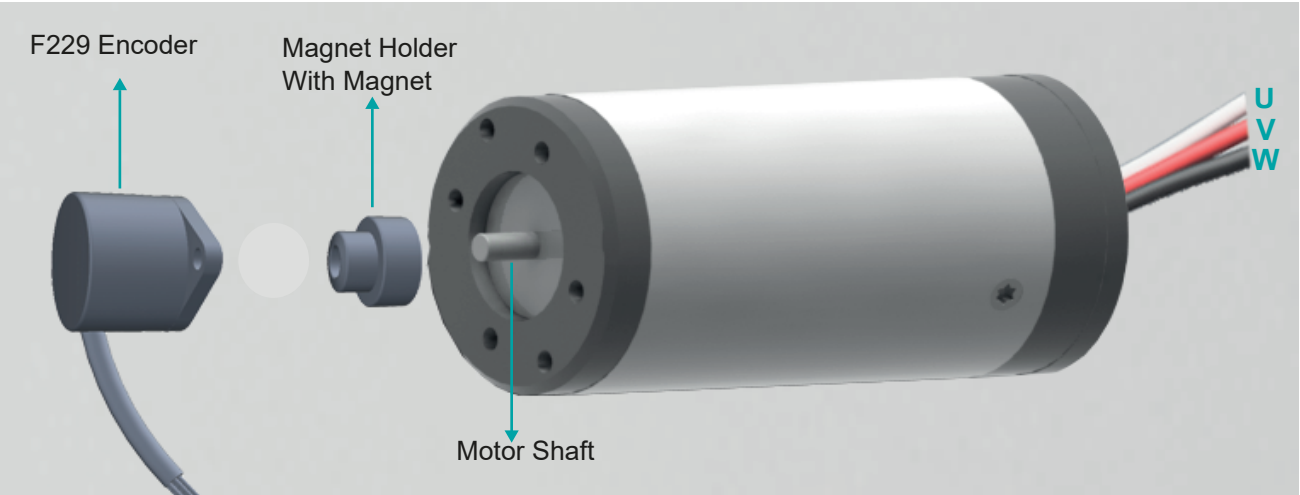
F229 MHB1044



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Installation Guide

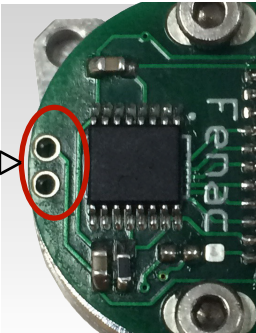
Montage



Zero the UVW signals

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

zeroing pads



Encoder Part Number

Commutation Version

F

229

B15

A

7

C

Outer Diameter
22: 22 mm

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

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

Magnet Holder

F

229

MHB

0644

Magnet holder type
0644 : 6 mm hole
0844 : 8 mm hole
1044 : 10 mm hole

Incremental Version

F

229

B15

1024

C

Outer Diameter
22: 22 mm

Resolution
up to 4096 ppr

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