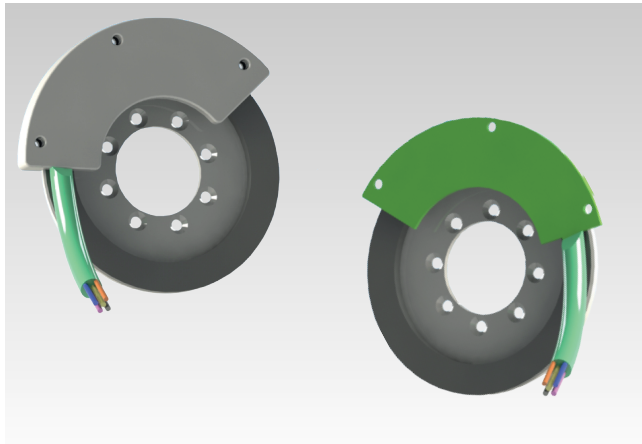


Bearingless encoders

Resolution 1...65536 pulses for Incremental Version



FNC MAR5535 Series, Incremental Axial



Features

- Off - Axis Incremental rotary encoder
- Robust mechanical and electrical construction
- Corrosion resistant magnetic ring
- Outer diameter 55 mm
- Inner diameter 35 mm
- Up to 65.536 PPR max. for incremental rotary encoder
- <300 kHz frequency
- Magnetic system

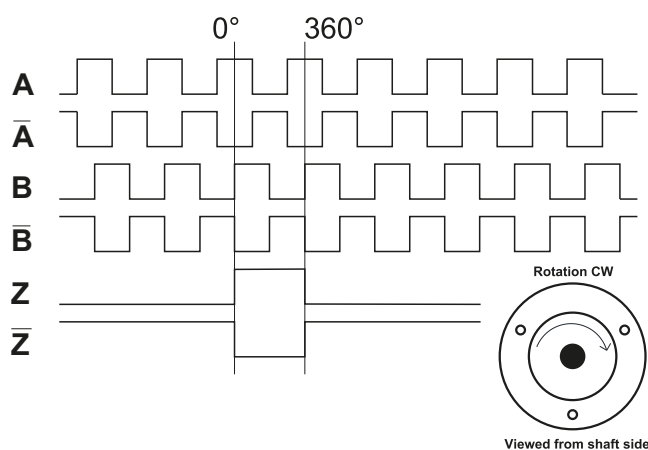
Technical data - electrical ratings

Voltage supply	4.75VDC to 5.5VDC
Protection:	Output short circuit protection. Reverse polarity protection
Consumption w/o load	≤60 mA
Output circuit	Linedriver/RS422 Push-pull short-circuit proof
EMC Standars	EN 61000-6-2 / EN 61000-6-4
Approval	CE

Technical data - mechanical design

Dimensions (ring)	ø55 mm
Protection DIN EN 60529	IP54, IP65
Operating speed	≤10000 rpm
Matetials	Ring: Aluminum
Operating / Storage temperature	-20...+85 °C / -30°C ...+90°C
Weight approx.	200 g

Pulse Diagram for Incremental Version



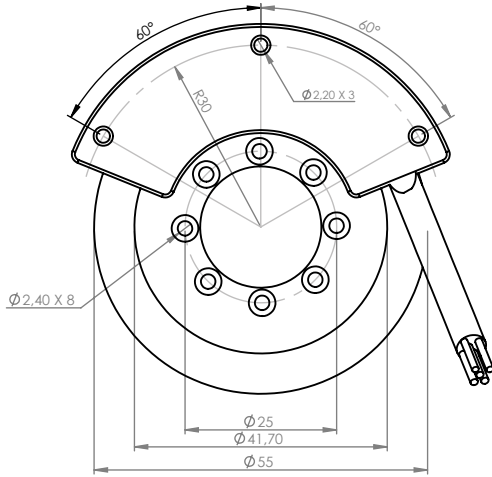
Cable Wiring

Function	Color
+VB	Brown
GND	White
A	Green
A'	Red
B	Yellow
B'	Pink
Z	Gray
Z'	Blue

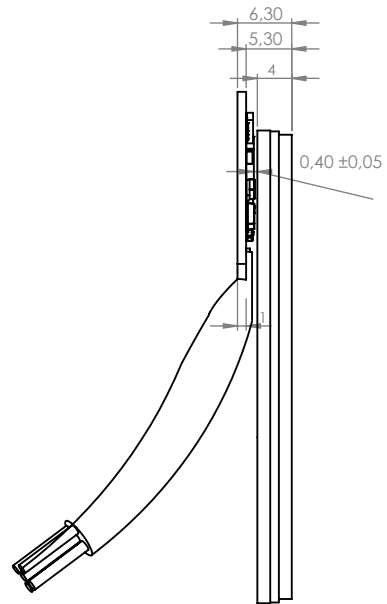
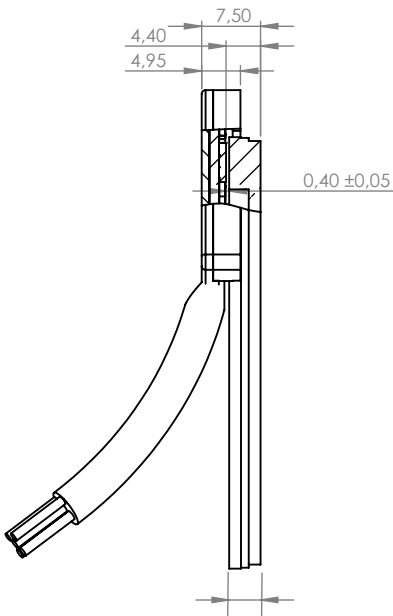
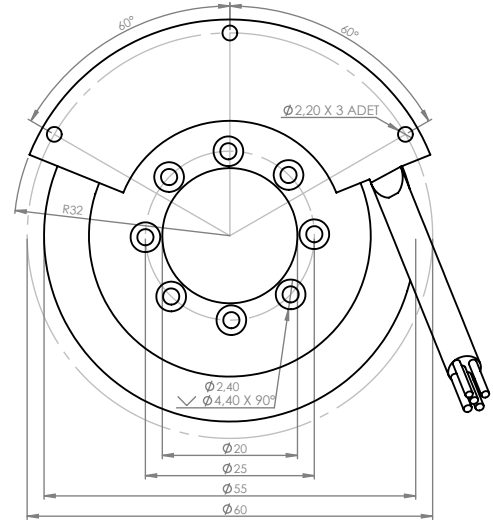
FNC MAR5535 Series, Incremental Axial

Mechanical Dimensions

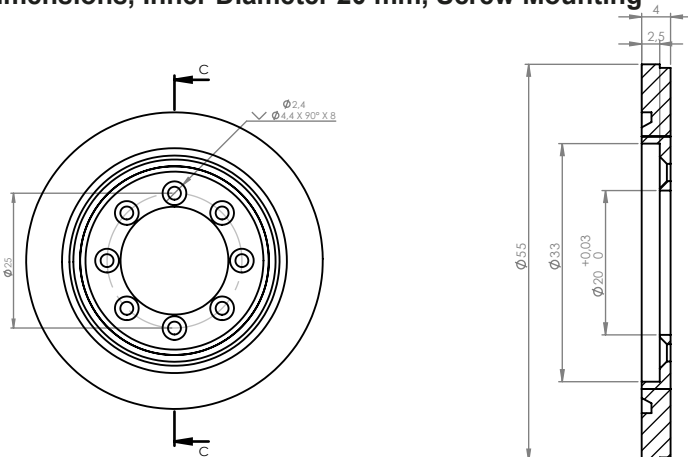
Cover Type, Inner Diameter 20 mm, Screw Mounting



PCB Type, Inner Diameter 20 mm, Screw Mounting



Ring Dimensions, Inner Diameter 20 mm, Screw Mounting



Magnetic Ring Part Number : **FNC MAR16420SM**

Bearingless encoders

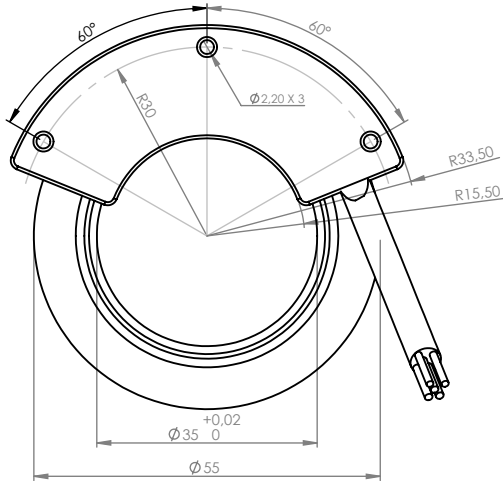
Mechanical Dimensions

Cable/Connector Wiring, Part Number

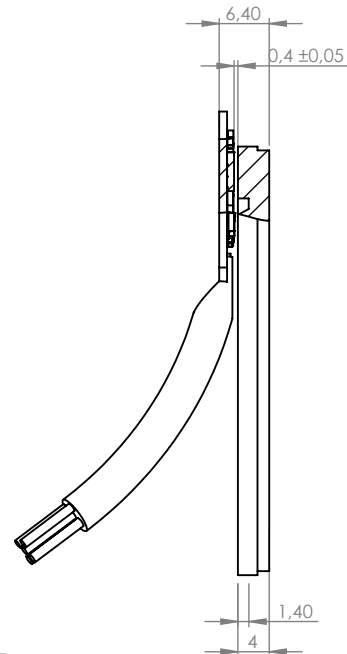
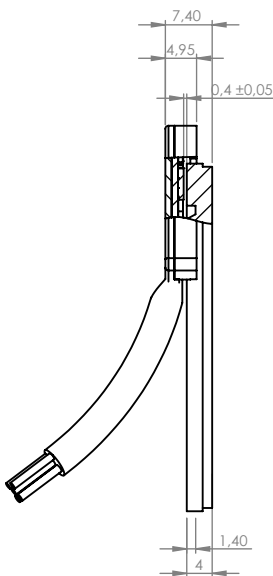
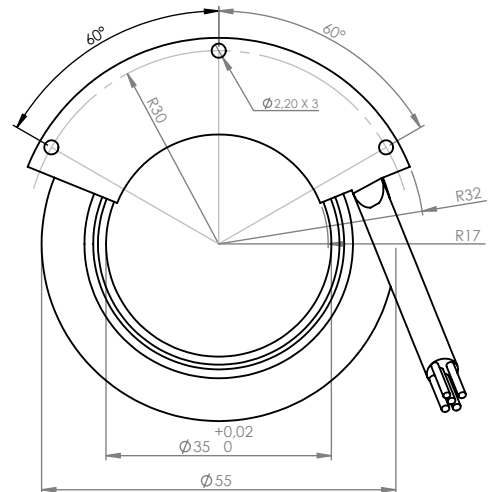
FNC MAR5535 Series, Incremental Axial

Mechanical dimension

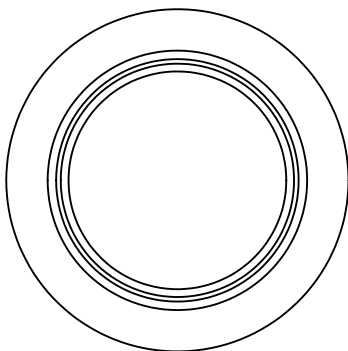
Cover Type, Inner Diameter 35 mm



PCB Type, Inner Diameter 35 mm



Ring Dimensions, Inner Diameter 35 mm

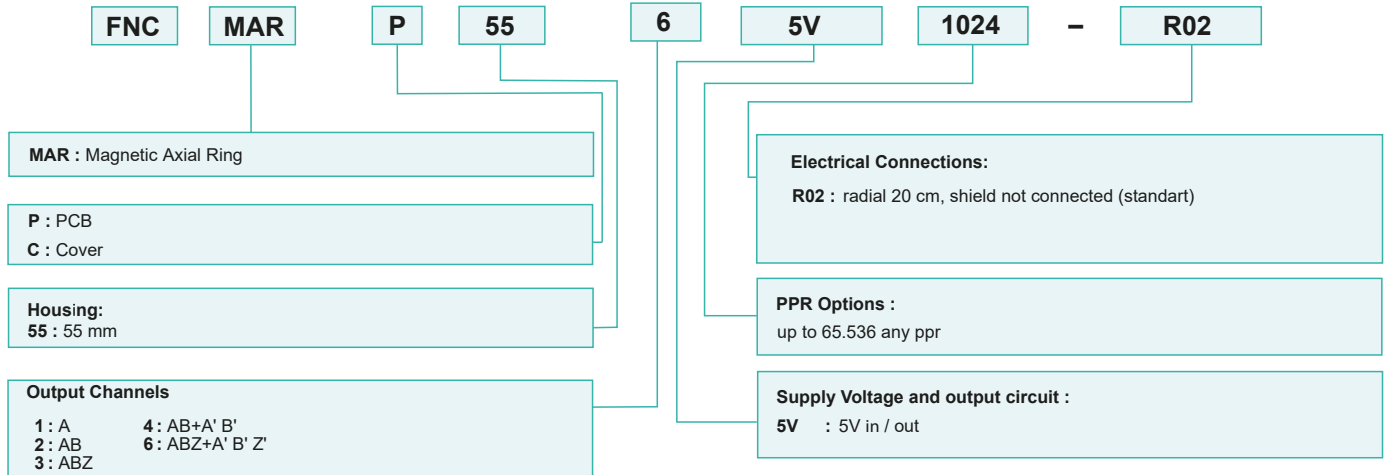


Magnetic Ring Part Number : **FNC MAR16435**

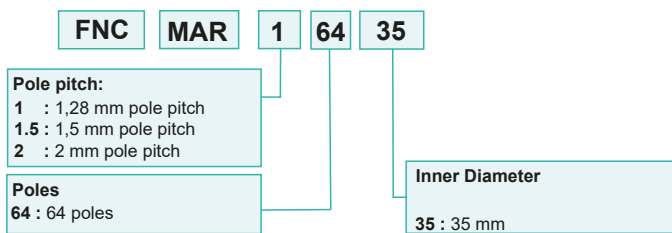
P.S. When the magnet and pcb are positioned correctly, the green led lights up constantly. The red led indicates errors received (distance, wrong positioned magnet etc.)

FNC MAR5535 Series, Incremental Axial

Encoder Part Number



Magnetic Ring Part Number, Inner Diameter 35 mm



Magnetic Ring Part Number, Inner Diameter 20 mm with Screw Mounting

