

Miniature incremental encoders

FNC F08 IM Series



Features

- Compact miniature design
- A, B, Z incremental signal output
- Differential RS 422 incremental output signals
- Super small non-contact magnetic technology
- 8 mm diameter body

Technical data - electrical ratings

Voltage supply	5VDC $\pm$ %5
Interface	ABZ; Line Driver RS422
Resolution (steps/turn)	up to 4096 CPR

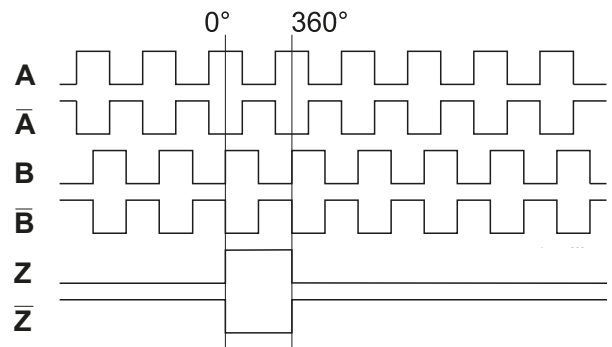
Technical data - mechanical design

Dimensions	8 mm
Materials	Housing : Aluminium
Magnet	4x4 mm NdFeB
Wire thickness	AWG28

Connections

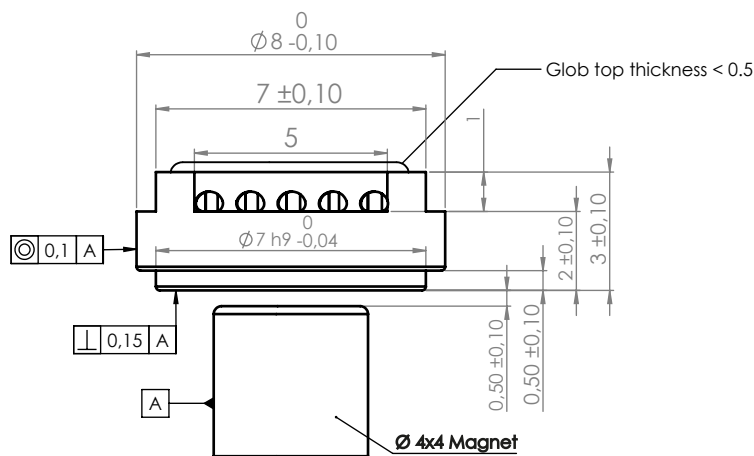
Function	Color	Renk	Explanation
+5V	Brown	Kahverengi	Supply Voltage
GND	White	Beyaz	Ground
A	Green	Yeşil	A Channel
B	Yellow	Sarı	B Channel
Z	Gray	Gri	Z Channel
A'	Red	Kırmızı	A'Channel
B'	Pink	Pembe	B' Channel
Z'	Blue	Mavi	Z' Channel

Pulse Diagram



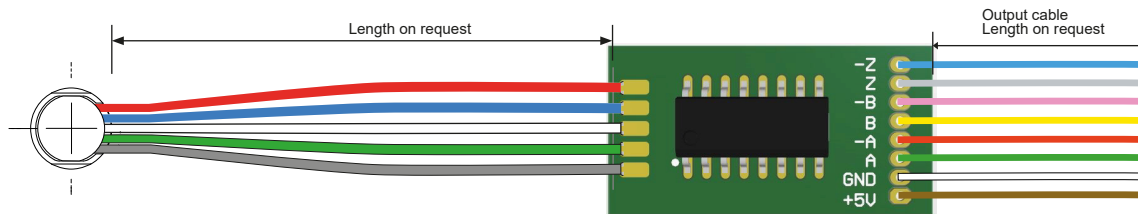
****Rotation CW viewed from magnet side**

Mechanical Dimensions



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Encoder Part Number

F	08	IM	10	- R2
Outer Diameter 08: 8 mm		Cable Length : Standard 50cm cable R2 : 2 meter cable		
Output Type IM : Incremental Single Ended (A-B-Z Output,3 Channel) IMD : Incremental Differential Ended (A-A'-B-B'-Z-Z' Output,6 Channel)		Resolution 8 : 1024 CPR 9 : 2048 CPR 10 : 4096 CPR		