

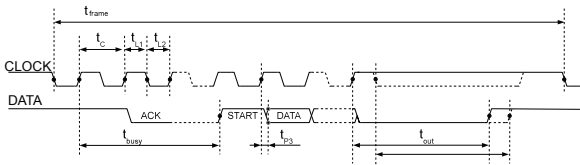
FNC F11 Series



Electrical Characteristics

Voltage Supply	5V±5%
Interface	BISS
Singleturn Resolution	16 bit
Sensing	Magnetic
Coding	Binary
Connection	Cable
Operating Temperature	-40 to +85°C

Signal Diagram



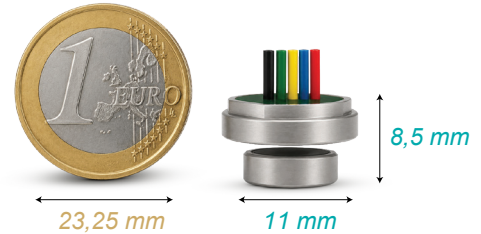
Parameter	Min	Max	Unit
t_c Permissible Clock Preiod	100		ns
t_{L1} Clock Signal hi Level Duration	50	t_{out}	ns
t_{L2} Clock Signal lo Level Duration	50	t_{out}	ns
t_{busy} Minimum Data Output Delay		$2t_c$	
t_{busy} Maximum Data Output Delay		400	ns
t_{p3} Output Propogation Delay		50	ns
t_{out} Slave Timeout		20	µs

Features

- Encoder singleturn SSI/BISS
- Magnetic sensing
- Singleturn resolution up to 24 bit
- Miniature encoder, 11 mm diameter body
- Non-contact, bearingless design

Actual Size (1:1)

The product and the 1 Euro coin are shown at actual size.



Mechanical Characteristics

Housing Material	Aluminum
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Cable Wiring / Connector

Function	Color	Renk
+VB	Brown	Kahverengi
GND	White	Beyaz
Clock+	Blue	Mavi
Clock-	Gray	Gri
Data+	Orange	Turuncu
Data-	Pink	Pembe

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BISS Product Options

(n = 24)

D23...D8	D7	D6	D5...D0
PD[15:0]	nE	nW	CRC

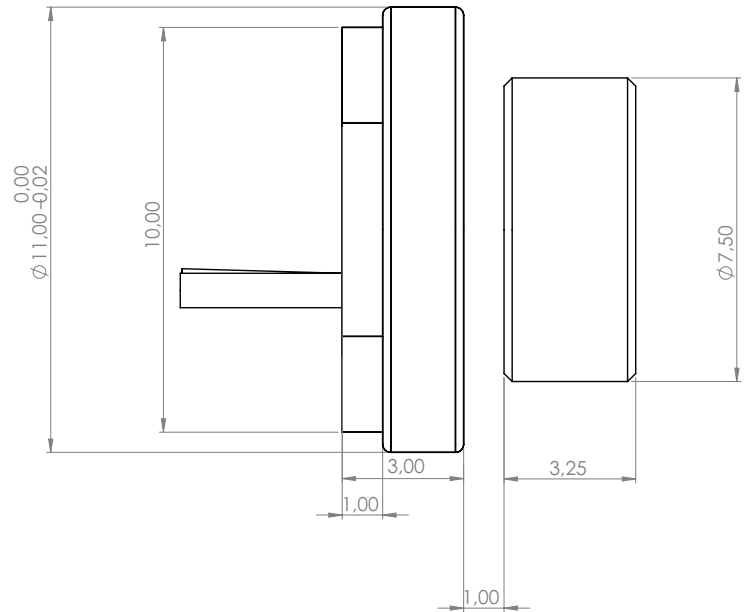
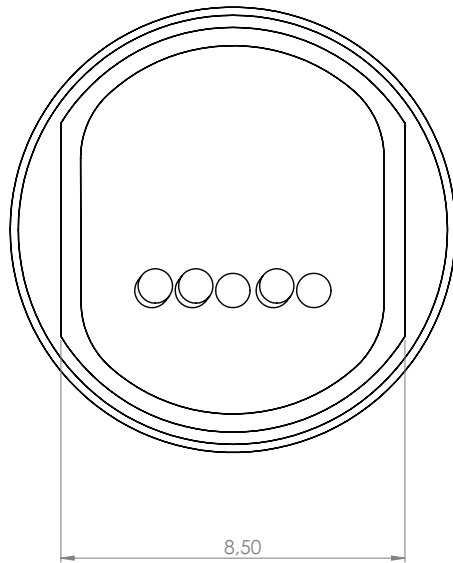
PD : Binary position data.

nE : Error Flag. Low active.

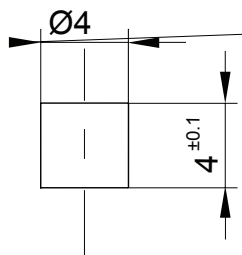
nW : Warning Flag. Low active.

CRC : Cyclic Redundancy Check, 0x43 polynomial

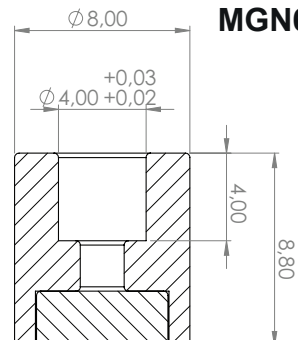
Mechanical Dimensions



MGN44

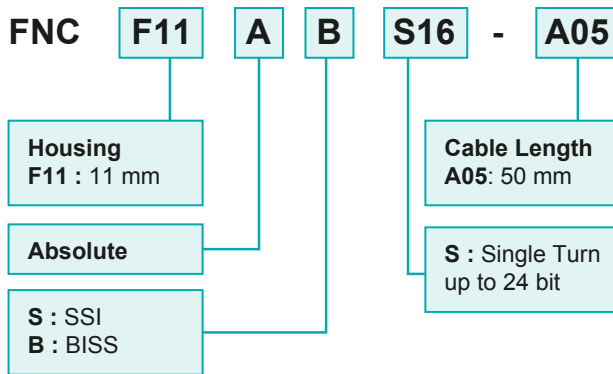


MGN625



FNC F11 Series

Encoder Part Number



Magnet Holder Part Number

MGN44 : 4x4 Magnet
MGN625 : Magnet Holder for 6x2,5 magnet