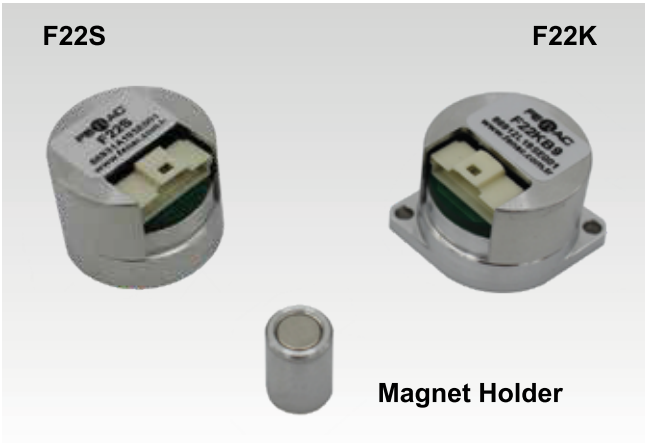


FNC AS F22 Series



Features

- Designed for motor feedback applications
- Up to 12 bit
- 22 mm diameter body
- Non-contact magnetic technology

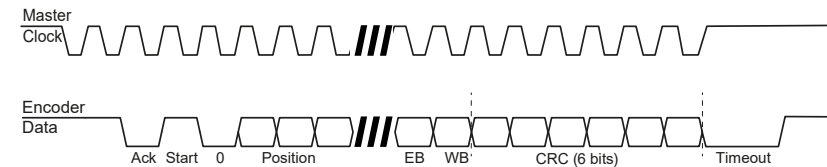
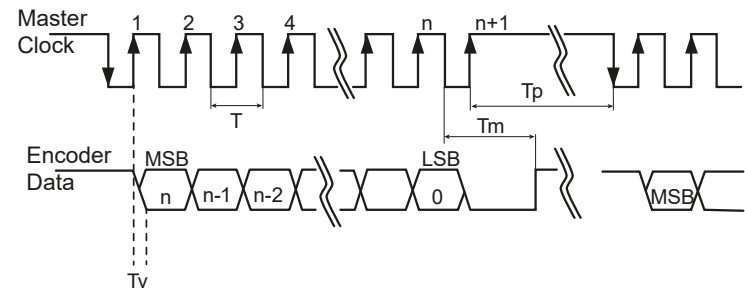
Technical data - electrical ratings

Voltage supply	5VDC ± %5
Interface	SSI / BISS - C
Resolution	up to 14 bit

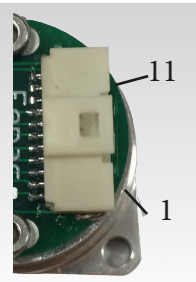
Technical data - mechanical design

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

Pulse Diagram SSI / BISS



Connection



Function	Color	Pin
+VDC	Brown	1
GND	White	2
Clock+	Blue	9
Clock-	Blue-Black	8
Data+	Orange	11
Data-	Orange-Black	10

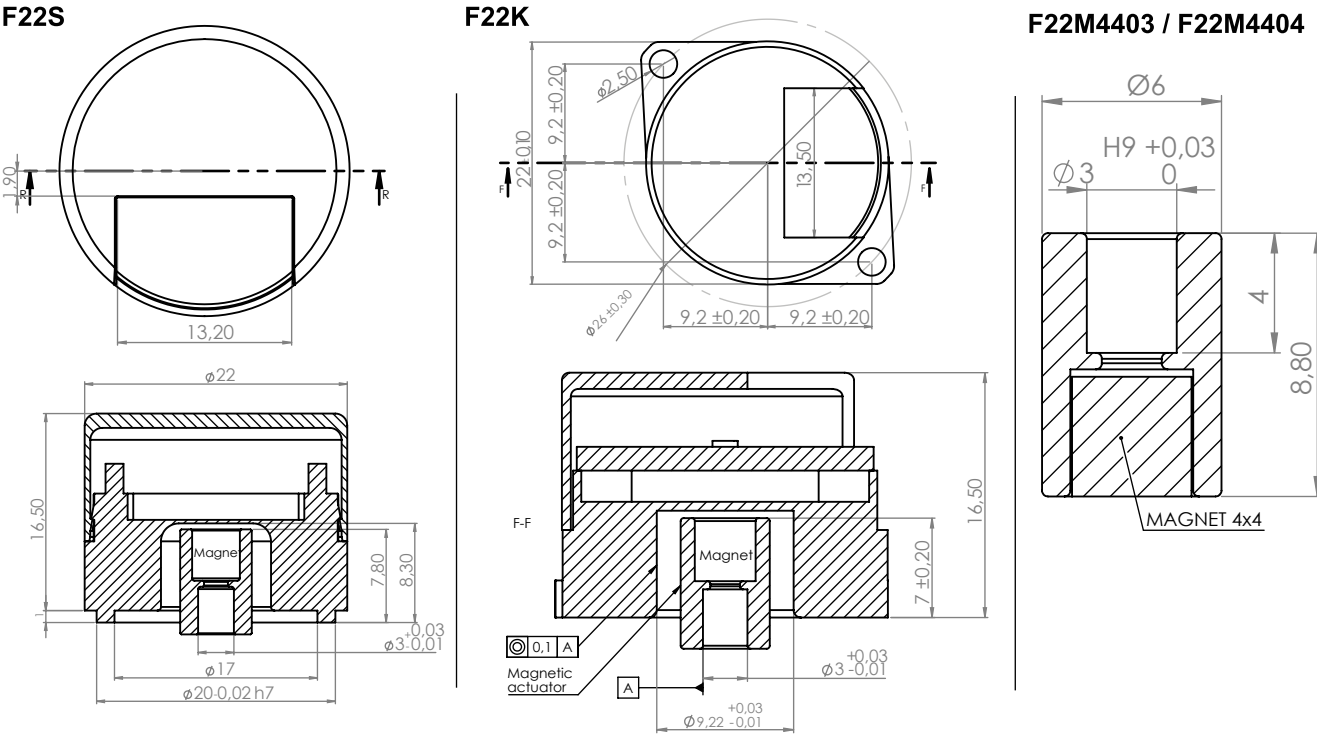
Symbol	Description
n	Total number of data bits
T	Clock Period
f = 1/T	Clock frequency
Tv	Bit update time
Tp	Pause time
Tm	Monoflop time
ACK	Absolute position one clock cycle
Start	Encoder signal for "start" data transmit
"0"	Start with follower
AP	Absolute position data
EB	Error bit
WB	Warning bit
CRC	Cyclic redundancy check
Timeout	Elapse between the sequential "start" request cycle's (20 ms)
Total Bit Size	ACK+Start+AP+EB+WB+CRC
ODR	(T x Total Bit Size) + Timeout

SSI DESCRIPTION

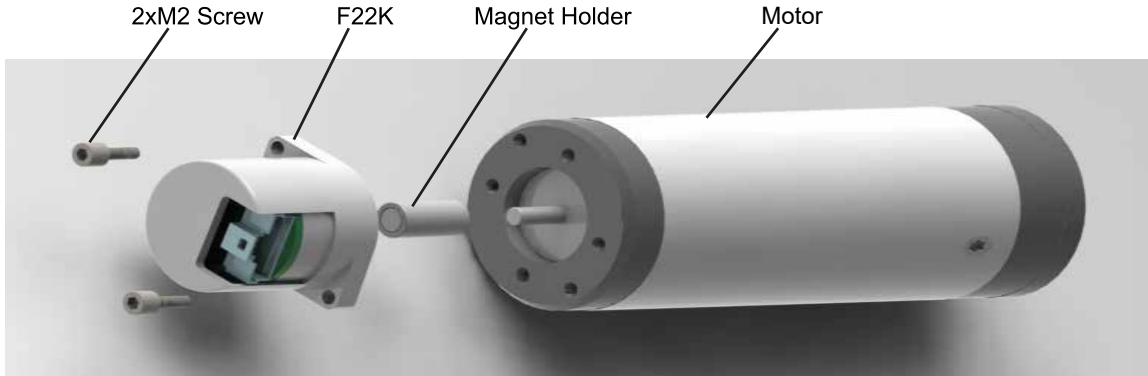
BISS DESCRIPTION

FNC AS F22 Series

Mechanical Dimensions



Installation Guide



Encoder Part Number

Magnet Holder

FNC A S M F22 K S12 5V B - C F 22 M 44 03

03 : 3 mm
04 : 4 mm

Absolute

S: SSI B: BISS

M: Magnetic

Housing F22 : 22 mm

Flange Type:
K : Ear Flange
S : Servo Flange

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

B: Binary G: Gray

Supply Voltage:
5V : 5V

S : Single Turn
up to 12 bit