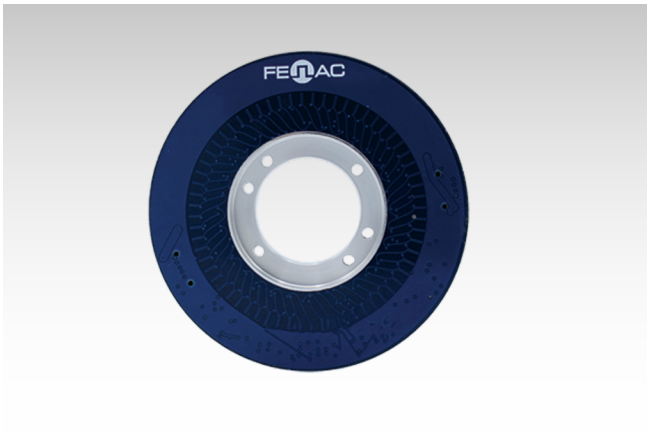
Fenac Inductive Contactless Encoders

FNC ASI 58 Series



Features

- **Non contact inductive technology**
- **High accuracy**
- **For high reliability in extreme environments**
- **Robust mechanical design**
- **Thin design**

Technical data - Electrical Ratings

Supply Voltage	5V or 6 - 36 VDC ±%5
Interface	SSI or BISS
Protection	Overvoltage protection Short-circuit protection
Resolution (steps/turn)	up to 21 bit
Output frequency	up to 2 MHz for SSI up to 10 MHz for BISS
Code	Binary
Output circuit	SSI data linedriver RS485
Interference immunity	DIN EN 61000-6-2
Emitted interference	DIN EN 61000-6-4
Approval	CE

Technical data - Mechanical Ratings

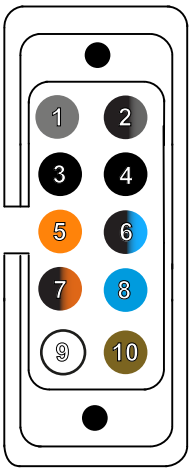
Dimensions	Outer Diameter : 58 mm
Mounting Type	Clamping or Screw
Mounting Gap	1 mm ±0,2
Materials	Anodized Aluminium
Protection DIN EN 60529	IP 67
Operating temperature	-40 ... +85°C
Weight	Rotor : 30 g Stator : 100 g

Fenac Inductive Contactless Encoders

FNC ASI 58 Series

Cable Wiring

Function	Connector	Color
+VB	pin 10	Brown
GND	pin 9	White
CLK+	pin 8	Blue
CLK-	pin 6	Blue-Black
DATA+	pin 5	Orange
DATA-	pin 7	Orange-Black
ZERO*	pin 1	Gray
FACTORY ZERO**	pin 2	Gray-Black



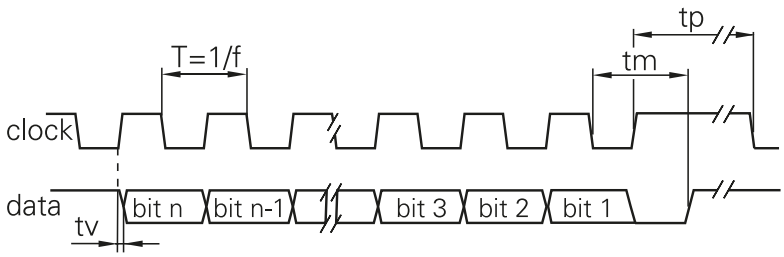
During operation;

* : To set the Zero position, apply GND to Zero pin for more than 100msec.

** : To set the Factory Zero position to factory default, apply GND to Factory Zero pin for less then 1 second.

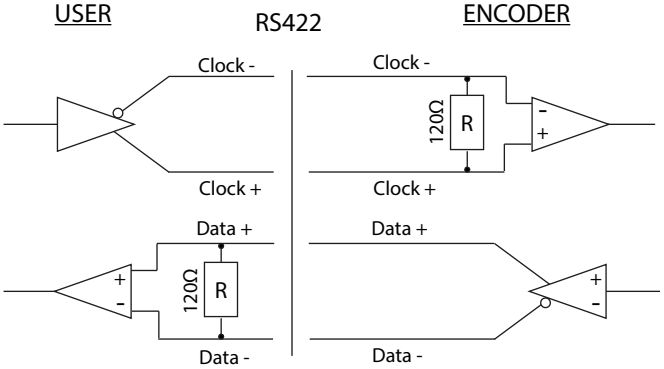
*** : If these pins are not used, please connect to 5V with a pull-up resistor.

Communication Interface



Clock frequency, f	100 ... 2000 kHz for SSI 100 ... 10.000 kHz for BISS
Code	Binary
Status and parity bit	On request
Monoflop time tm	20 µs
Delay time tv	<150 ns

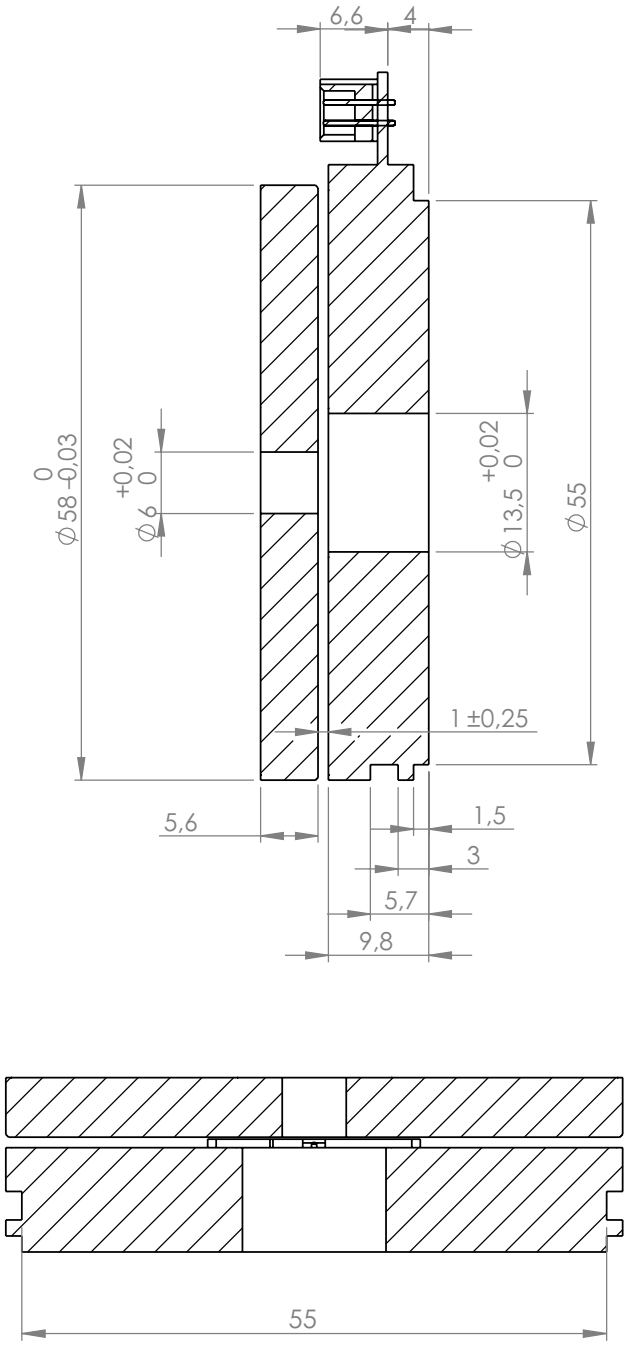
Communication Hardware



FNC ASI 58 Series

Mechanical Diamensions

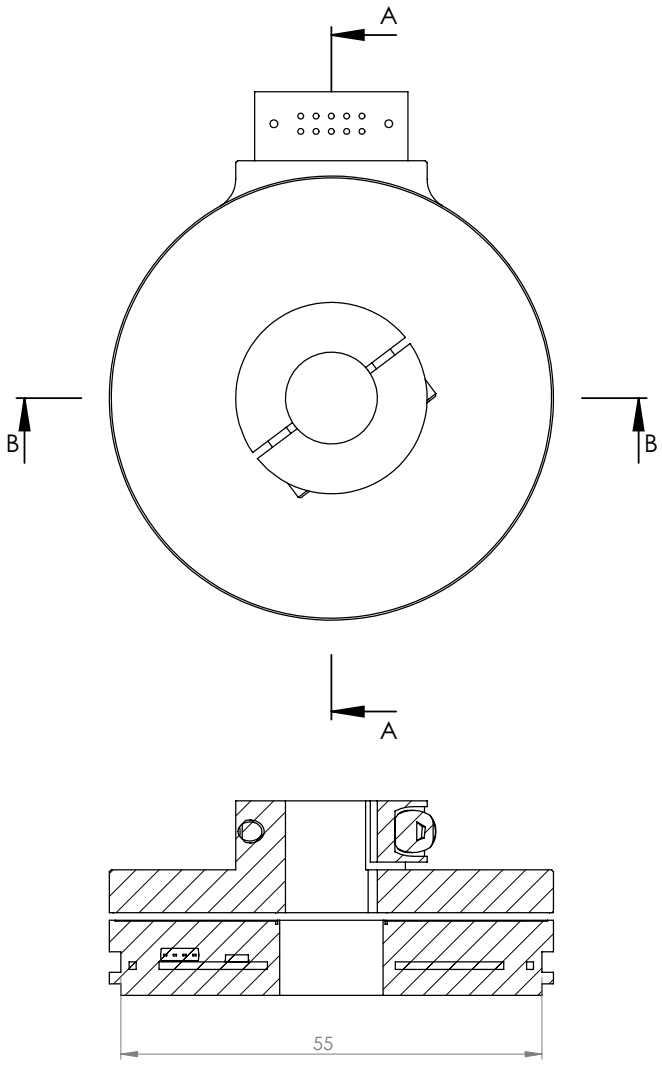
Screw Clamp Stator - Plain Rotor Version



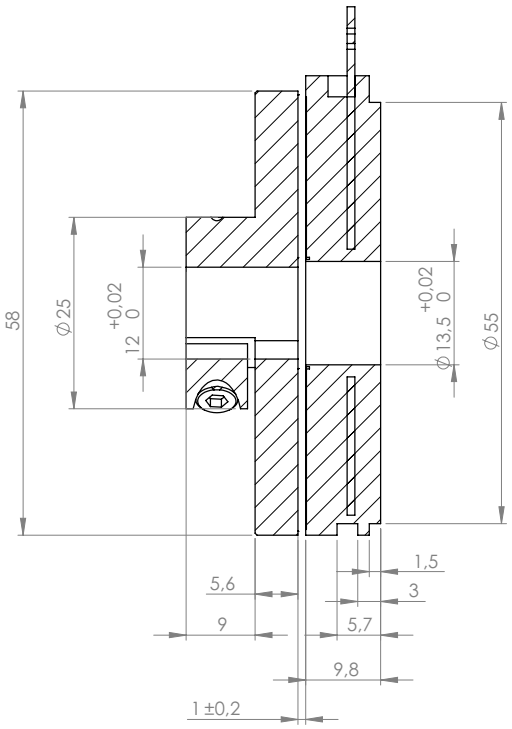
FNC ASI 58 Series

Mechanical Diamensions

Servo Clamp Stator - Shaft Clamp Rotor Version



KESIT B–B
ÖLÇEK 3 : 2



KESIT A–A
ÖLÇEK 3 : 2

Fenac Inductive Contactless Encoders

FNC ASI 58 Series

Encoder Part Number

