

# Hollow Shaft Optical Absolute Encoders



## FNC TASO 30H Series



### Features

- SSI or BISS Interface Rotary Encoder
- Optical sensing
- Resolution up to 21 bit
- 30 mm diameter body
- 8 mm diameter hollow shaft

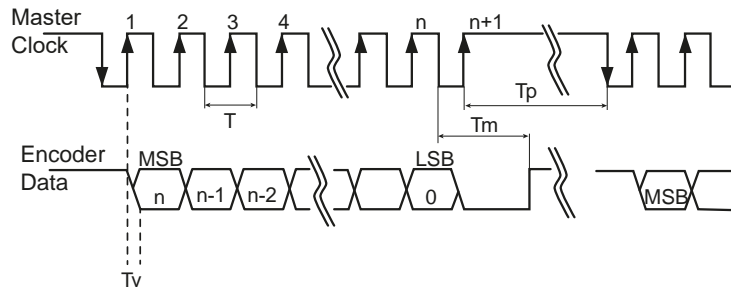
### Technical data - Mechanical Ratings

Dimensions	30 mm
Shaft Diameter	8 mm
Materials	Housing : Aluminium Shaft : Stainless Steel
Operating Tem.	-40 to +85 °C

### Technical data - Electrical Ratings

Supply Voltage	5V
Interface	SSI or BISS
Protection	Reverse voltage protection Over voltage protection
Resolution (steps/turn)	up to 21 bit
Absolute accuracy	$\leq \pm 0.02^\circ$ after fine calibration

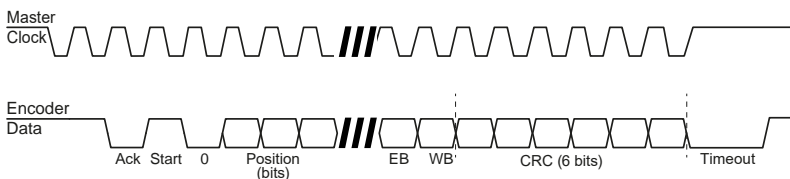
### Pulse Diagram SSI / BISS



### Symbol Description

Symbol	Description
n	Total number of data bits
T	Clock Period
$f = 1/T$	Clock frequency
$T_v$	Bit update time
$T_p$	Pause time
$T_m$	Monoflop time

SSI DESCRIPTION

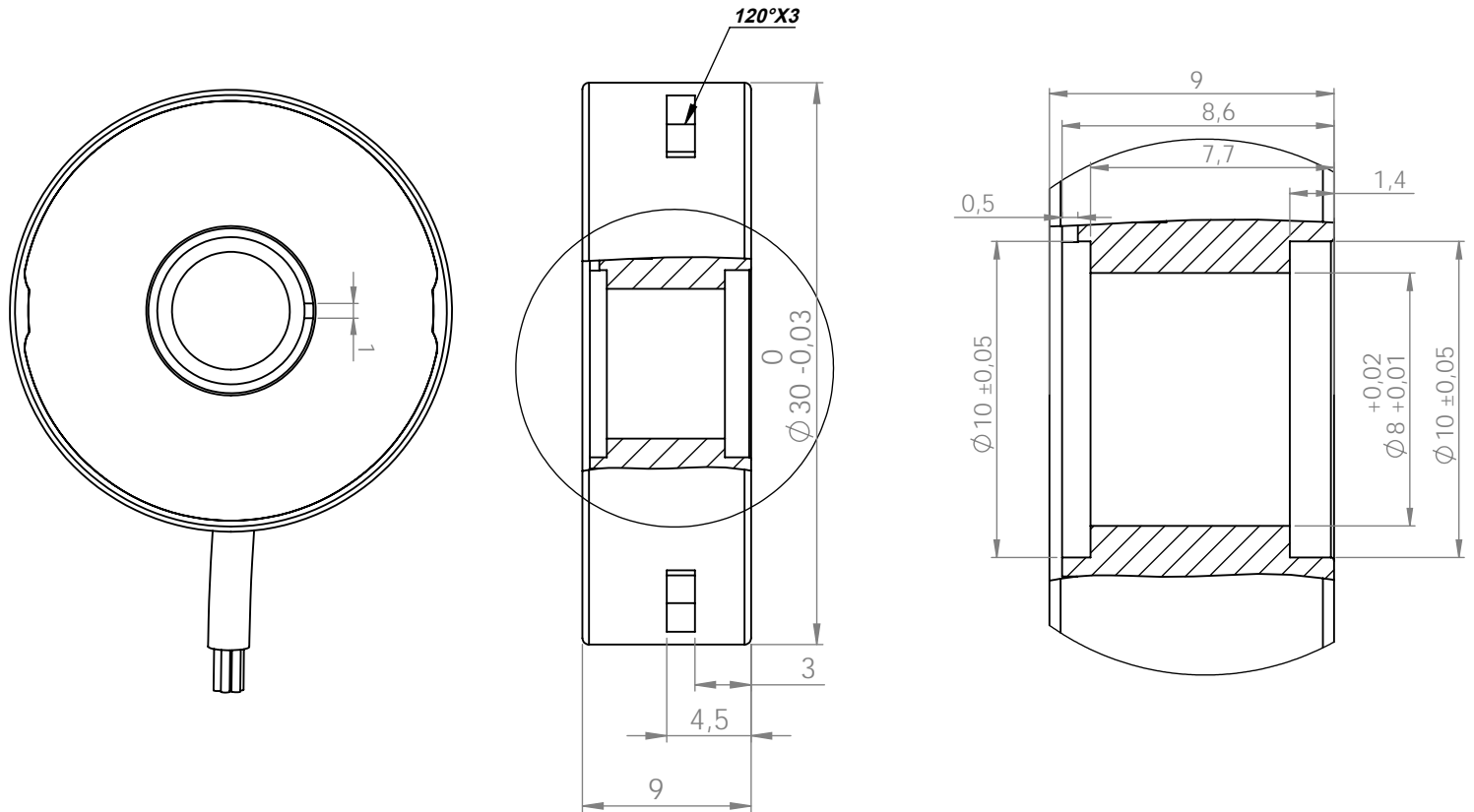


ACK	Absolute position one clock cycle
Start	Encoder signal for "start" data transmit
"0"	Start with follower
AP	Absolute position data
EB	Error bit
WB	Warning bit
CRC	Cyclic redundancy check
Timeout	Elapse between the sequential "start" request cycle's

BISS DESCRIPTION

## FNC TASO 30H Series





### Mechanical Dimensions



# Hollow Shaft Optical Absolute Encoders

## FNC TASO 37HBK4 Series

### Cable Wiring

Function	Color	Renk
+5V	 Brown	Kahverengi
GND	 White	Beyaz
Clock+	 Blue	Mavi
Clock-	 Blue-Black	Mavi-Siyah
Data+	 Orange	Turuncu
Data-	 Orange-Black	Turuncu-Siyah

### Part Number

