

Tubular shaft is attachable to the axis.

Unlike shaft encoder, rotary encoder doesn't require coupling. It fits in a device and reads axial rotation with high accuracy.

Variety of lineups for measuring length and angles

There are four sizes for machinery axis rotation; large, medium, small, extra small are available. Three kinds of rotary encoders equipped with sexagesimal system.

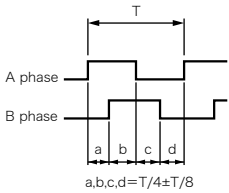
Easy to attach and strongly build.

Adapting tubular shaft saves space and simplifies. High durability for sever circumstances, and the strong casing protects from dust. Available for many purposes.

Specifications

	For measuring length			For measuring angle
Series	S	C	O	A
Number of pulses	100	100	100	2160 5400
	125	125	125	
	150	150	150	
	400	400	400	
	500	500	500	
	600	600	600	
Outside diameter	φ 23(+0.15/+0.10)	φ 35(+0.15/+0.10)	φ 23	φ 12
Power source	DC 4.5~13 V, 60 mA or less			
Output phase	A/B phase			
Output form	Voltage output, Pull-up resistor 2 kΩ			Voltage output (Complementary output)
Output capacity	Residual voltage : 0.7 V or less Sink current : 30 mA or less			
Output pressure-resistance	—			
Output phase difference	90°±45°			
Permissible rotational speed	700 min ⁻¹			200 min ⁻¹
Start torque	50 × 10 ⁻³ N・m	80 × 10 ⁻³ N・m	250 × 10 ⁻³ N・m	50 × 10 ⁻³ N・m
Moment of inertia	255 gcm ²	1.2 kgcm ²	245 gm ²	100 gcm ²
Permissible axis load	Radial	9.8 N(1 kgf)		19.6 N(2 kgf)
	Thrust	9.8 N(1 kgf)		39.2 N(4 kgf)
Operating temperature range	0~45℃			
Operating humidity range	35~90 % RH(No humidity)			
Storage temperature range	-20~80℃			
Vibration resistance	With 39.2 m/s ² (4G), 30 minutes			
Impact resistance	With 490 m/s ² (50G)			
Protection structure	IP50		IP64	IP50
Weight(with cable)	400 g	600 g	500 g	400 g
Forwarding distance	15 m or less			
Connecting cable	2 m φ5.3 (DIN8P with connector)			
RoHS	Compliant			

Output waveform



Connecting cable

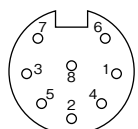
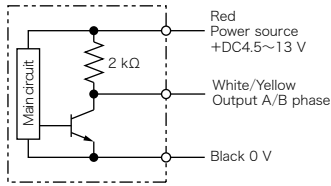


Figure seen from the cable side

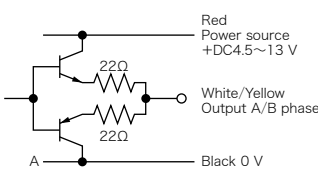
Pin No.	Signal name	Line color
1	B phase	Yellow
5	A phase	White
6	Power supply	Red
7	0 V	Black
8	Shield	Shield

Output multi-phase circuit diagram

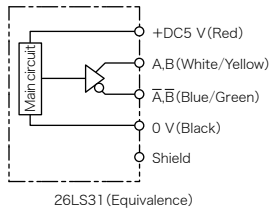
Voltage output type S, C, O



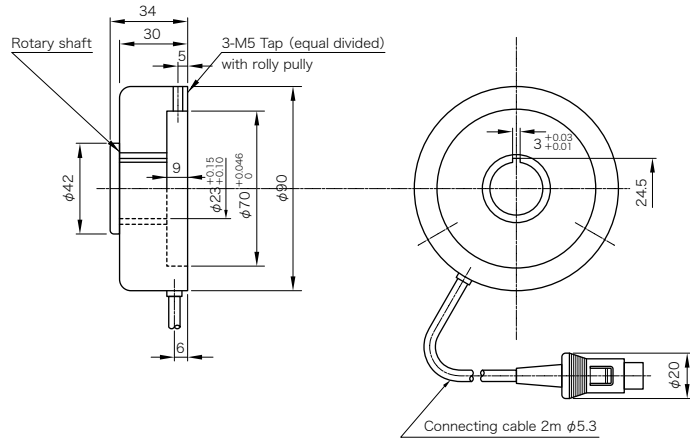
Voltage output type (Complementary output)



Output multi-phase circuit diagram (Line driver output type)

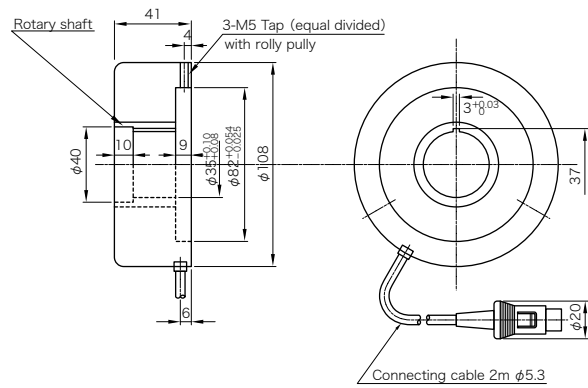


Outline drawing S Series



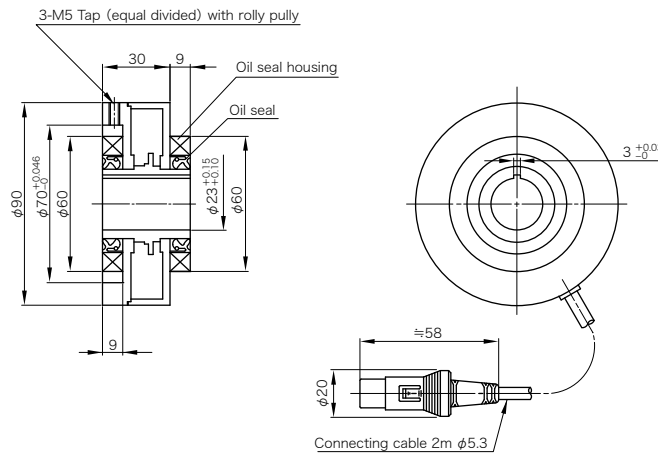
Outline drawing C Series

Build to order

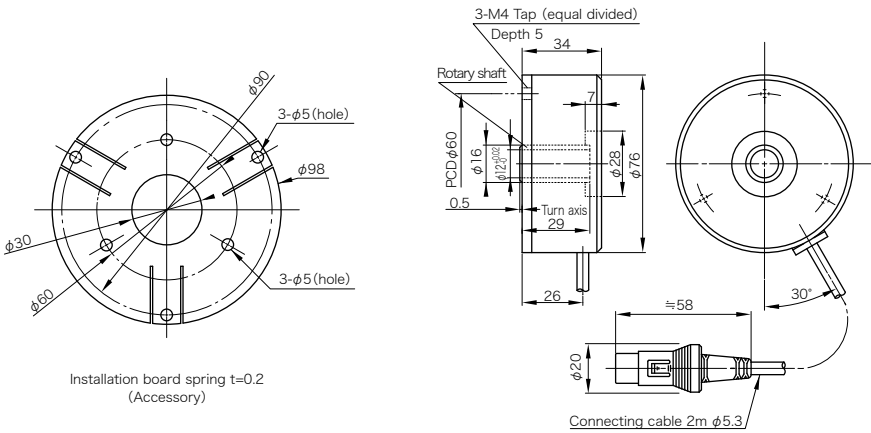


Outline drawing O Series

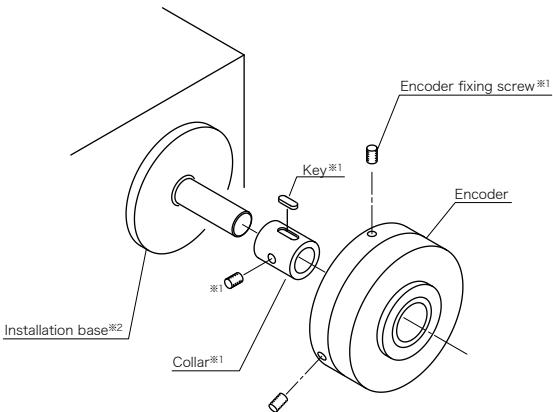
Build to order



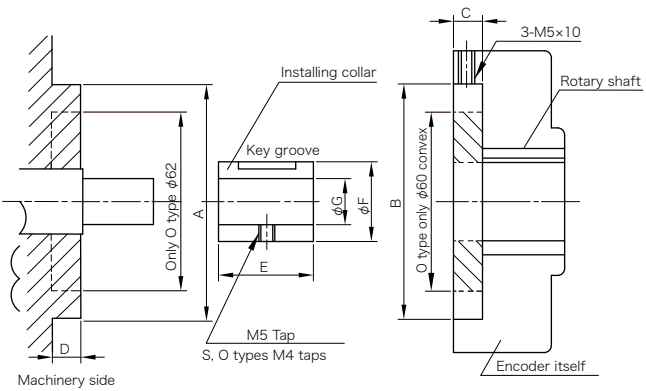
■ Outline drawing
A series



■ Installation method
S series
C series
O series



※1 Only S, C, O series are the accompanying items
※2 Please prepare for yourself.

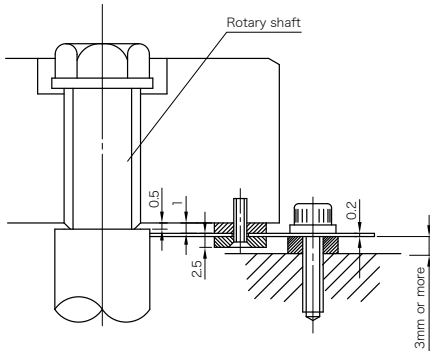
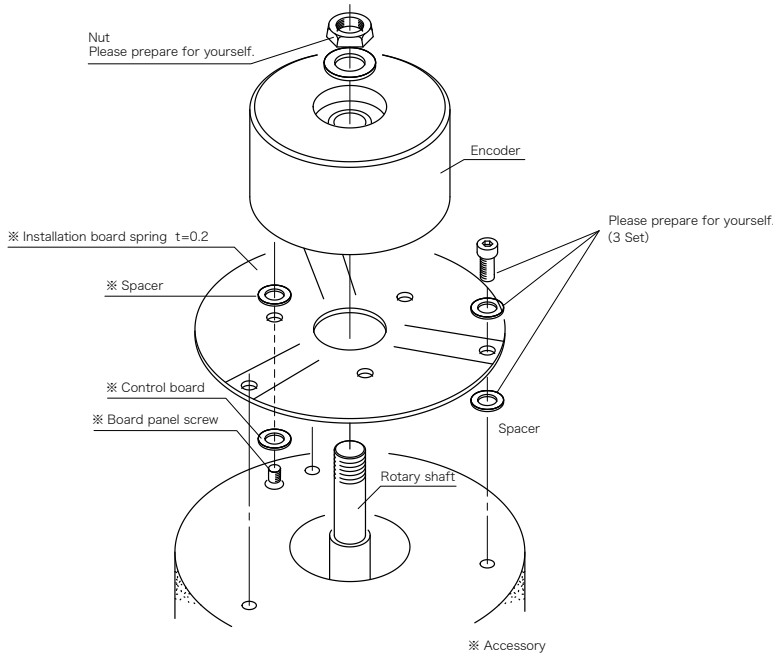


Installation size and color (Accessory) size

Size	A	B	C	D	E	F	G	Key
Series								
S · O	$\phi 70^{+0.6}_{-0.15}$	$\phi 70^{+0.8}_{-0.15}$	9	8 or more	24	$\phi 23^{+0.1}_{-0.15}$	$\phi 8$	3 $\square$ -12 ℓ Keys with both round ends
C	$\phi 82^{+0.6}_{-0.15}$	$\phi 82^{+0.8}_{-0.15}$	9	8 or more	24	$\phi 35^{+0.1}_{-0.15}$	$\phi 9$	3 $\square$ -12 ℓ Keys with both round ends

※ G is processed with uneven on the end. Please process to adjust to the size of shafting.

■ Installation procedure
A series



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