

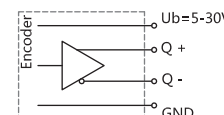
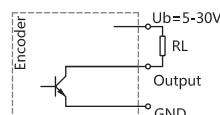
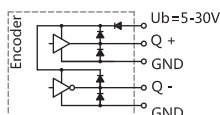
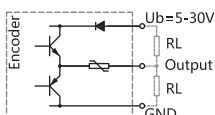


EHK105HS series	
Sensing method	optical
Housing size	Φ105mm
hollow shaft	Φ12, Φ16, Φ19, Φ20mm
axis of cone	17 ( 1:10 )
Max. resolution	2500PPR
Supply voltage	5VDC, 5-30VDC, 9-26VDC
Protection	IP66

### Mechanical characteristics

Shaft diameter	Φ12, Φ16, Φ19, Φ20mm axis of cone 17 (1:10)
Protection	IP66
Speed	6000RPM
Shaft loading	max. 100 N Axial; max. 300 N Radial
Shock resistance	100g, 3ms
Vibration resistance	10g, 10...2000HZ
Bearing life	10 <sup>9</sup> turns
Rotor moment of inertia	≈120×10 <sup>-6</sup> kgm <sup>2</sup>
Starting torque	<0.1Nm
Materials	Materials Flange :Stainless steel / PEEK Solid shaft :Aluminium alloy Housing:Aluminium alloy
Working temperature	-40 C ... +85 C
Storage temperature	-40 C ... +85 C
Weight	approx.1.7kg

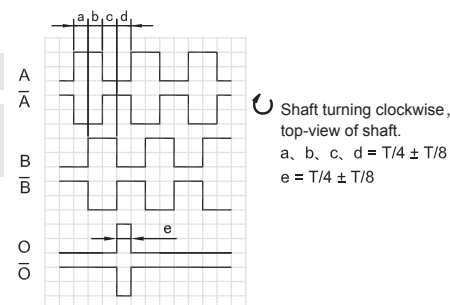
### Electrical characteristics



Output circuit	Push-Pull	Push-Pull Differential	Open Collector	RS422 (TTL Compatible)
Pulse rate	max. 2500P/R	max. 2500P/R	max. 2500 P/R	max. 2500P/R
Supply voltage	5-30V	5-30V	5-30V	5-30V
Power consumption(no load)	max. 125 mA	max. 125 mA	max. 80 mA	max. 80mA
Permissible load/channel	max. ±80mA	max. ±80mA	max. -50mA	max. ±50mA
Pulse frequency	max. 100 KHz	max. 100 KHz	max. 100 KHz	max. 100 KHz
Signal level high	min. Ub-2.5V	min. Ub-2.5V	/	min. 2.5 V
Signal level low	max. 0.8V	max. 0.8V	/	max. 0.4V
Rise time Tr	max. 1 μs	max. 1 μs	/	max. 1 μs
Fall time Tf	max. 1 μs	max. 1 μs	/	max. 1 μs
Short circuit proof outputs	yes	yes	yes	yes

### Terminal assignment

signal		OV	+Ub	A	$\bar{A}$	B	$\bar{B}$	O	$\bar{O}$	$\text{⏏}$
Cable Colour		WH	BN	GN	PK	YE	BU	GY	RD	Shield

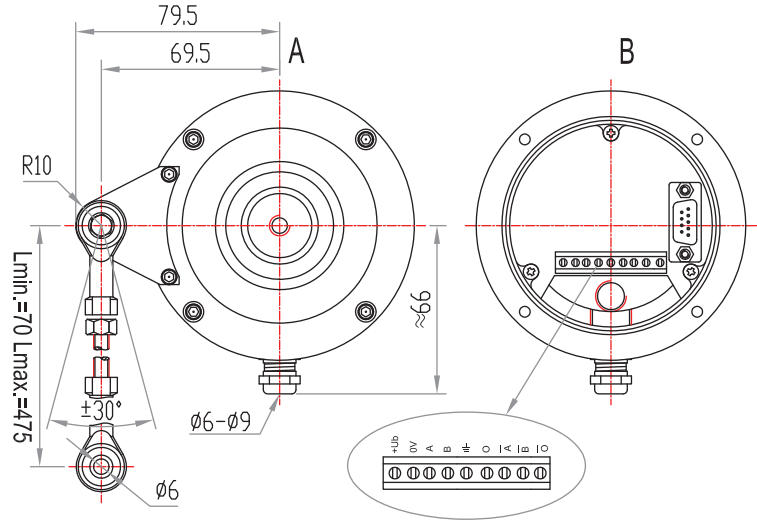
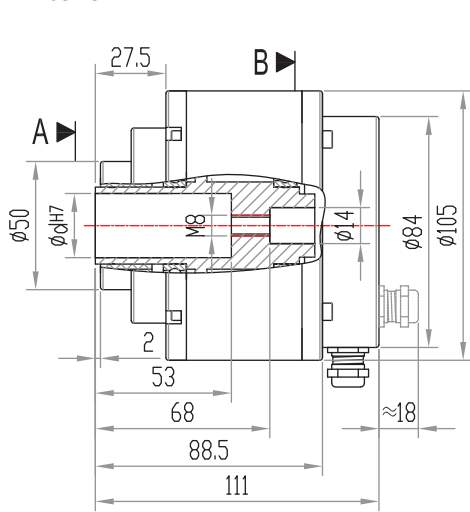


Note: Positional relationship of O channel and A&B channels is not specified.

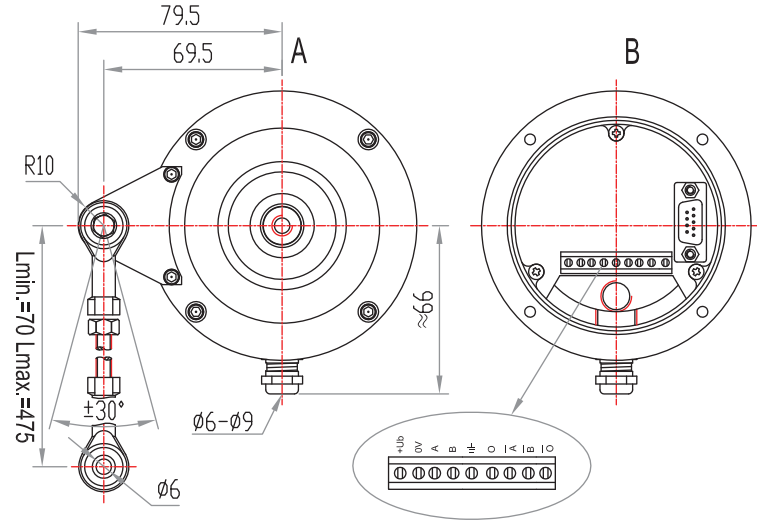
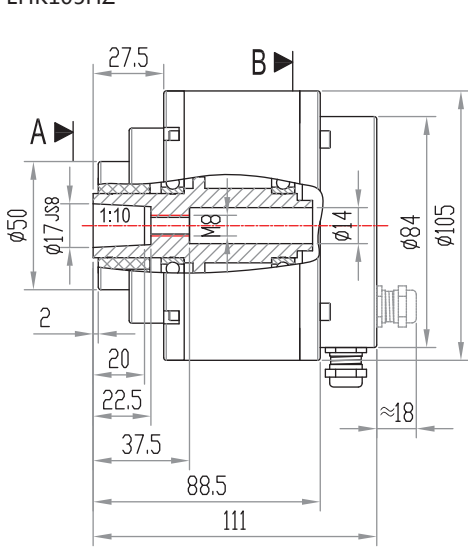


## Dimensions

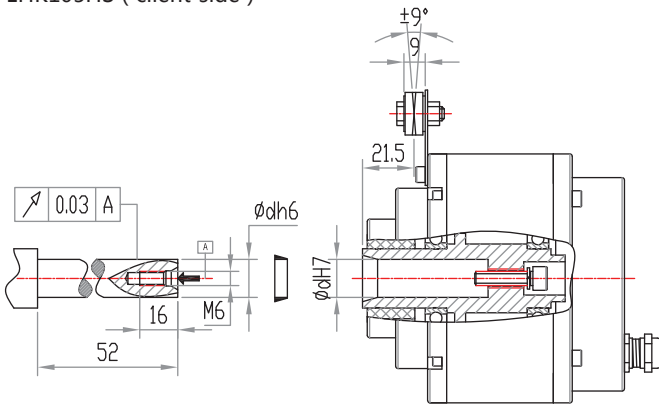
EHK105HS



EHK105HZ



EHK105HS (client-side)



EHK105HZ (client-side)

