

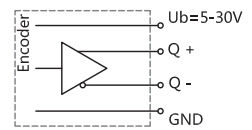
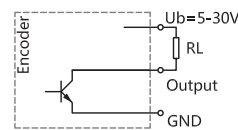
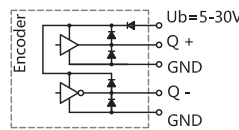
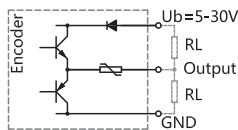


EHK105HS series	
Sensing method	optical
Housing size	Φ105mm
hollow shaft axis of cone	Φ12、Φ16、Φ19、Φ20mm
Max. resolution	17 (1:10)
Supply voltage	2500PPR
Protection	5VDC, 5-30VDC, 9-26VDC
	IP66

Mechanical characteristics

Shaft diameter	Φ12、Φ16、Φ19、Φ20mm axis of cone17 (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 ⁹ turns
Rotor moment of inertia	≈120×10 ⁻⁶ kgm ²
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

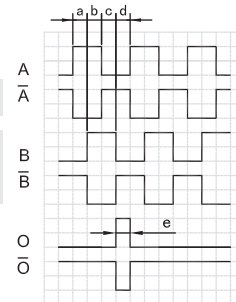
Electrical characteristics



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}	⏏
Cable Colour		WH	BN	GN	PK	YE	BU	GY	RD	Shield



Shaft turning clockwise,
top-view of shaft.
a, b, c, d = $T/4 \pm T/8$
e = $T/4 \pm T/8$

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

Ordering information

EHK105 XX HS 12 E 1024 A 5-30 R 2 / XXXX

① Extended No. XX	② Shaft type HS: hollow+screw HZ: axis of cone	③ shaft diameter 12: 12mm 16: 16mm 19: 19mm 20: 20mm 17: 17(1:10)	④ Channels B: A B C: A B O D: A \bar{A} B \bar{B} E: A \bar{A} B \bar{B} O \bar{O}	⑤ Pulse rate 500, 512,600 , 1000, 1024 ,1200, 2000, 2048 ,2500	⑥ Output circuit F: Push-Pull A: Push-Pull Differential C: Open Collector B: RS422 (TTL Compatible)
⑦ Supply voltage 5: 5VDC 5-30: 5...30VDC 9-26: 9...26VDC	⑧ Exit position R: Radial C: Axial	⑨ Connection type Figure: Cable length(m)	⑩ Special code XXXX		

Note: Printed in bold=standard items

Notes: 1, mentioned resolution is in common use, others depend on real situation.

2, pls confirm the model information: model series, axis dimension, output channel, resolution, output form, voltage, outlet, cable length, connect type and special code.

Ordering example: 1, EHK105HS12C1024F5-30R2, pls specify the special demand at end.

Explanation: EHK105HS series, shaft diameter 12mm, output A B O, 1024PPR, Push-pull, 5-30VDC, radial direction 2m.

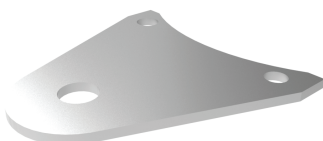
2, EHK105HZ17B1024F9-26R2, pls specify the special demand at end

Explanation: EHK105HZ series, axis of cone 17mm, output A B, 1024PPR, Push-pull, 9-26VDC, radial direction 2m.

Accessories (sold separately)

Note: Further stator coupling can be found in the accessories selection table.

Tether square
model (common) : 8182

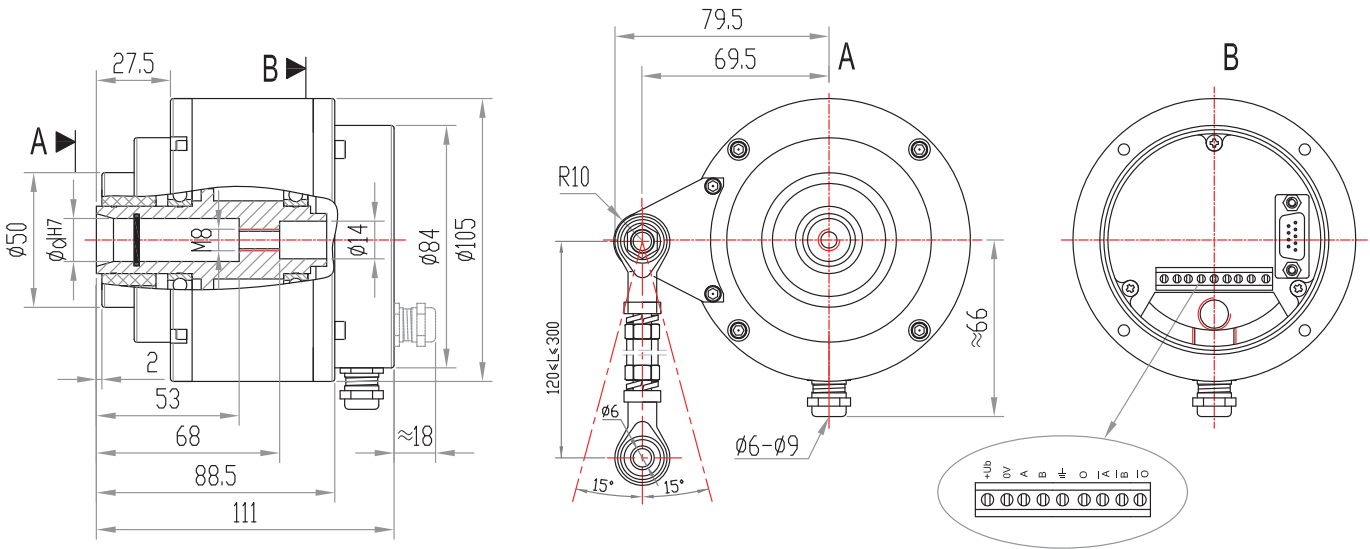


Tether arm, long
model (common) : 8561

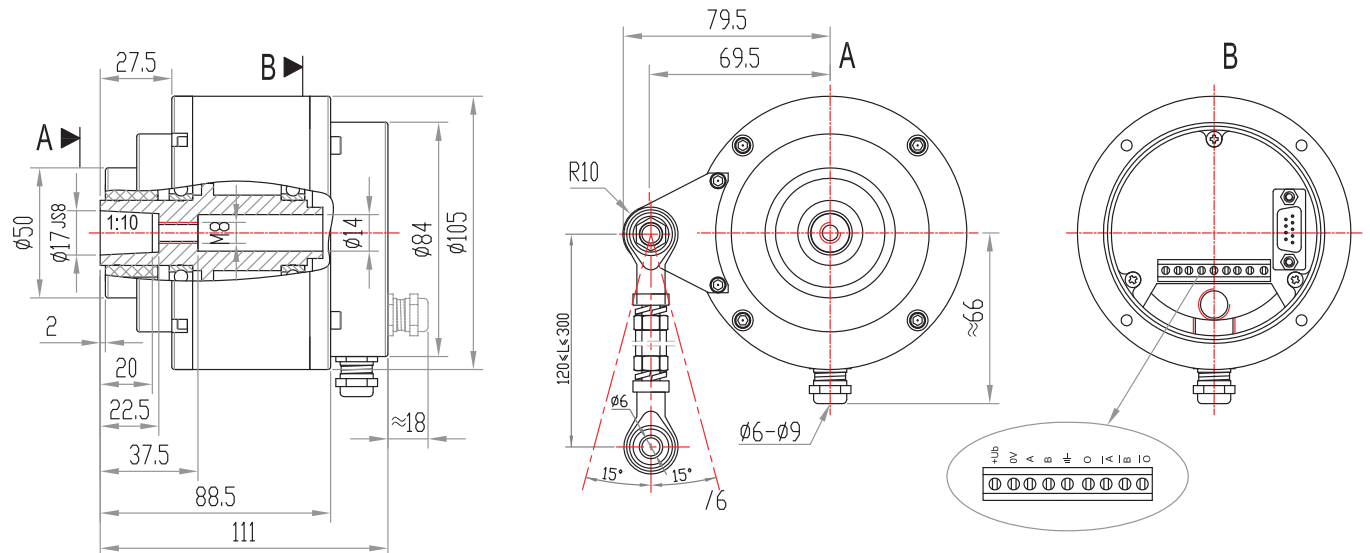


Dimensions

EHK105HS

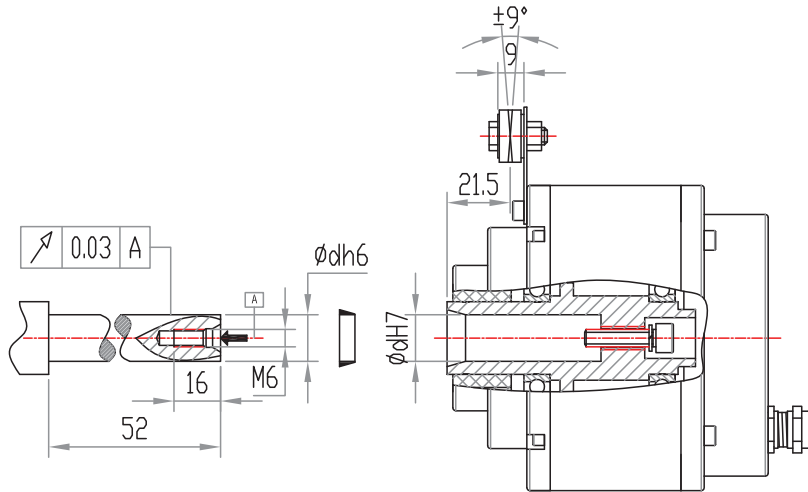


EHK105HZ



Dimensions

EHK105HS (Client-side)



EHK105HZ (Client-side)

