

INCREMENTAL HOLLOW SHAFT TYPE

KH88 Series



Model

INCREMENTAL HOLLOW SHAFT TYPE

Outer Diameter Ø88

KH88 - **30C** - **10**

Shaft Size
30 : Ø30

Resolution(P/R)
0512 1024

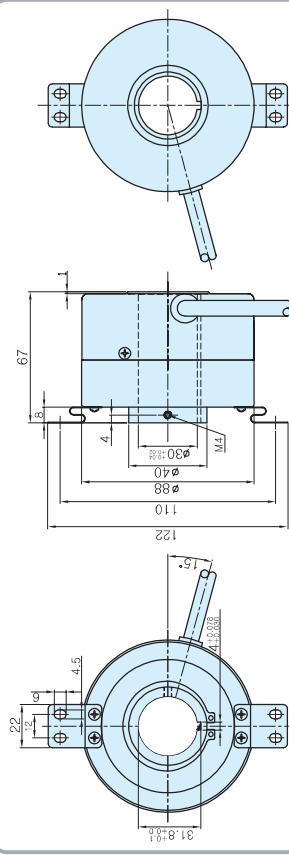
Output Signal
B : A, B
Z : A, B, Z
V : A, A, B, B, Z

Output Form
O : Open Collector
C : Complementary
L : Line Driver

Cable Length
1 : 1[M]
2 : 2[M]
3 : 3[M]
5 : 5[M]
10 : 10[M]

 Note) The spec of power may be different depending on the type of output and be sure to check the electric spec.

External Dimension



Output Circuit

Output	Open Collector	Complemental	Line Driver
Circuit			

Electrical Spec.

Output type	Open Collector	Complemental	Line Driver
Power Supply	DC +15[V] Ripple-p- less than 5%	DC +15[V] Ripple-p- less than 5%	DC +5[V], 5~24[V] Ripple-p- less than 5%
Consuming Current (Vccse from load)	70mA Max	150mA Max	150mA Max
Maximum Response Frequency		150 KHz	
Output voltage	Less than V _{0.5[V]} /More than V _{1.25[V]} (In case of inputting +5[V]), More than V _{1.0[V]} (In case of inputting +15[V])		
Output current	Less than 20mA	Less than 10mA	Less than 20mA
Rising, decline time	Less than 3μs	Less than 1μs	Less than 0.1μs[5[V]], less than 1μs[5~24[V]]
Common conditions	In case that the cable length of output side is 10M and load resistance is less than 1kΩ		

Mechanical Spec.

Starting Torque	800gf - cm Max
Maximum number of revolution	3000 rpm
Bearing lifetime	20,000hr(In case of rotating by 3000rpm)
Allowable Shaft Load	Radial : 5.0kgMax Axial : 2.5kgMax
Position deflection of allowable shaft	Radial : Less than 0.05 mm Axial : Less than 0.2mm
Connection Table weight	4P(AWG26) Shield CABLE 600g

Rigid Spec.

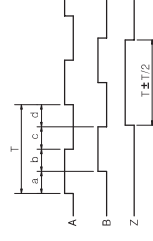
Operating Temp. Range	-10°C ~ +70°C (No freezing)
Preserving temp	-20°C ~ +85°C
Using Humidity	35% ~ +85% RH
Preserving Humidity	30% ~ +90% RH
Internal Vibration	5G
Internal Shock	50G
Degree of Protection	IP 50

Output Phase Shift



CW → Clockwise viewed from shaft end

Open Collector, Complementary



Line Driver

