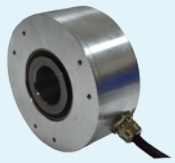
Economical HAE-90



- heavy-duty, maximum aperture of 30mm
- The number of pulses up to 5000PPR
- Polymer grating, super good shock resistance
- High degree of protection, resistance to harsh environments
- Perfect applied to various ports, metallurgy, mining machinery and automation industry

Mechanical characteristics		
Max.speed	6000 min^{-1}	
Starting torque	0.05 N.m MAX	
Moment of intertia	≤ 20 gcm^2	
Shaft load capacity -radial	20 N	
Shaft load capacity -axial	10 N	
Protection EN 60 529	IP54	
Operation temperature	-20 - 85°C	
Materials	Shaft：Stainless steel ；flange、Housing material：aluminium alloy	
Weight	About 0.850 kg	
Shock resistanceEN 60068-2-29	1000m/s^2 , 6ms	
Vibration resistance EN 60068-2-27	100m/s^2, 10-2000Hz	
Electrical characteristics		
Output circuit	Driver (TTL)	Push-Pull
Power supply	5VDC	10-30VDC
power consunmption	Max. 150mA	Max. 150mA
Permissible load/channal	Max. 30mA	Max. 30mA
Pulse frequency	Max. 100kHz	Max. 100kHz
Signal level- High	Min. 2.5V	Min. Ub-2.5V
Signal level- Low	Max. 0.5V	Max. 0.5V
Rising edge time t	Max. 100 ns	Max. 100 ns
Falling edge timet	Max. 100 ns	Max. 100 ns
Power protection	No	With
UL-approval	File	
CE requirement acc.to	EN 61000-6-2:2006；EN 6100-6-3:2007	

Terminanl assignment:

Signal	Ub	GND	A	$\overline{A}$	B	$\overline{B}$	Z	$\overline{Z}$	Shield
Cable(color mark)	BN	WH	GN	YE	GY	PK	BU	RD	

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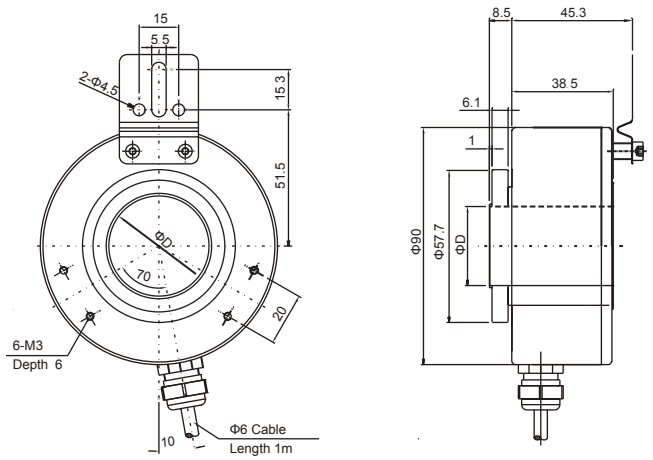
Hollow shaft-dimension



Order code- Hollow shaft

H A E - 9 0 C - X X X X - X X X X
Series - economical A B C D E

A **resolution**
1024

C **Shaft diameter**
B = ø 25 mm
E = ø 30 mm

E **Connection**
2 = Radial cable

B **Flange Type**
4 = Through hollow shaft (lock ring on the shell side)

D **Output/Power supply**
1 = TTL Line Driver / Power supply 5VDC
3 = Push-Pull (without inverted signal) / Power supply 10~30VDC
5 = Push-Pull (with inverted signal) / Power supply 10~30VDC