Series PRA PHA

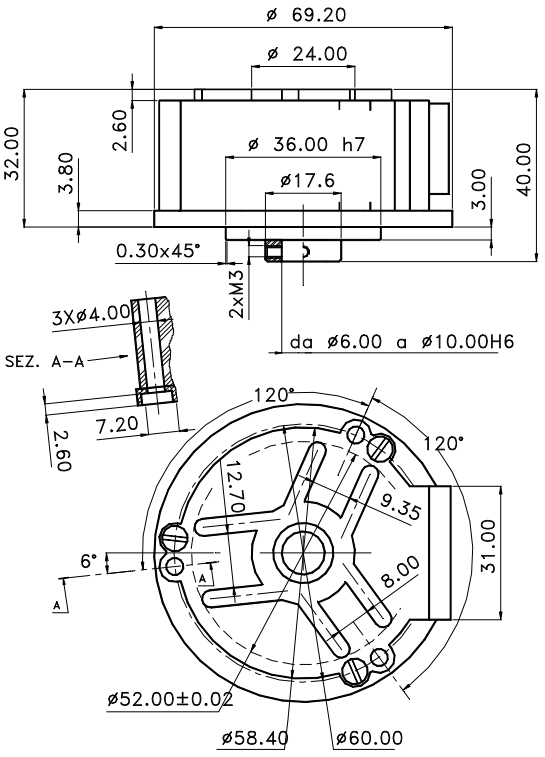
Absolute hollow shaft encoder, high settlement; self-aligning system panted

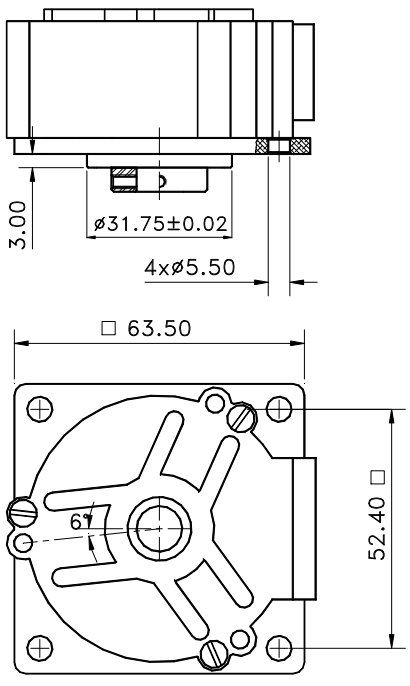
PRA = Absolute parallel
PHA = Absolute parallel with Hall effect

Mechanics Data

Cover:	SMC fiber glass + ABS
Body:	Aluminium
Solid shaft:	Stainless steel
Bearings:	2, ballraces
Weight:	Approx.150gr.
Protection:	IP65
Rpm:	6000 Max
Torque:	3Ncm
Inertia:	40gcm²
Shaft loading:	Axial 30N - Radial 30N
Recovery max value:	Angular 1,5° -0,5mm axial and radial

Dimensions in mm





Series PRA-PHA

Electronics Data

Power supply:	from 5 to 24V depends on the electronics circuit
Current consumption:	20mA
Max power:	2Watt
Permissible load:	20mA
Frequency:	100KHz (max 6000 rpm)
Protections:	Against short circuit, reversal polarity
Operating Temp.:	0/+60°C

Ordering code

Series | P | * | A | - | * | * | * | * | * | / | ***Pulses*** (Max 2.048)

Model
R = Absolute
H = With Hall probe

Shaft
6 = Ø 6mm
7 = Ø 7mm
8 = Ø 8mm
0= Ø10mm

Flange
1 = See previous
6 = page

Outputs
1 = PP 11/24V
2 = LD 5V

Connections
3 = Cable radial

Version
S = Standard (PRA)
4 = 4 Poles (PHA)
6 = 6 Poles (PHA)
8 = 8 Poles (PHA)

Connections

					Absolute encoder: output bit											Hall probe		
	- Volt	**+ Volt**	**U/D**	**G/B**	**MSB → LSB**											**H0**	**H1**	**H2**
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Cable	BLACK	BLUE	YELLOW WHITE	YELLOW GREEN	BROWN	BEIGE	YELLOW	GREEN	VIOLET	PINK	ORANGE	TRASPAR	RED WHITE	BLUE WHITE	GREEN WHITE	BROWN WHITE	VIOLET WHITE	ORANGE WHITE

Legend connections:
MSB = Most Significant Bit
LSB = Low Significant Bit
U/D = Up / Down direction signals (clockwise or anticlockwise)
G/B = Gray or Binary
H0..2 = Hall probe (outputs signals)

N.B. Encoder inputs are internally connected to logical "**1**"
The standard configuration is a follows: outputs code: Gray; clockwise increment (UP)
Connecting input to logical "**0**", the configuration changes, output code: Binary, anticlockwise increment (UP)