

Series BSP/BSC

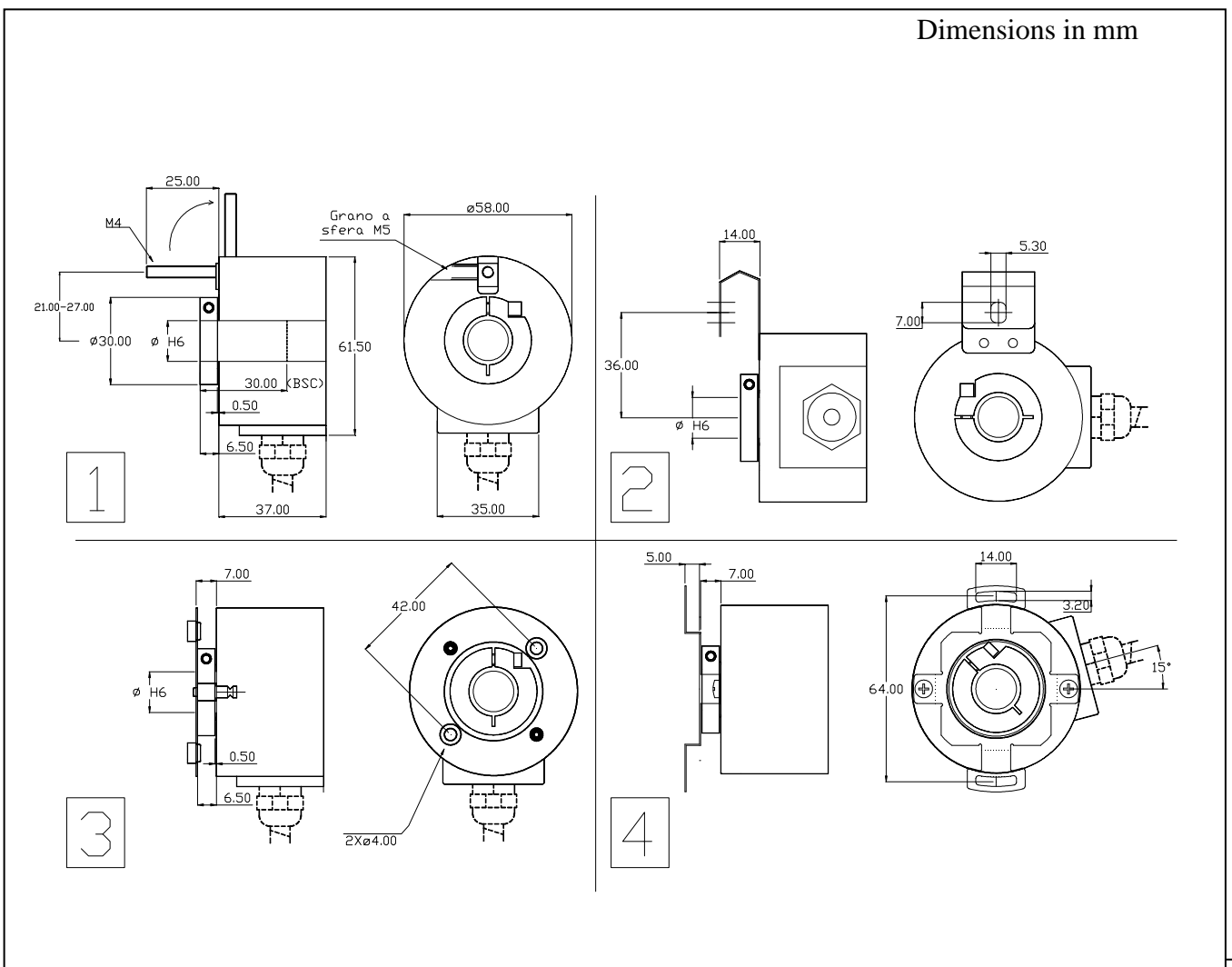
Incremental hollow and semi-hollow (Blind) shaft encoder

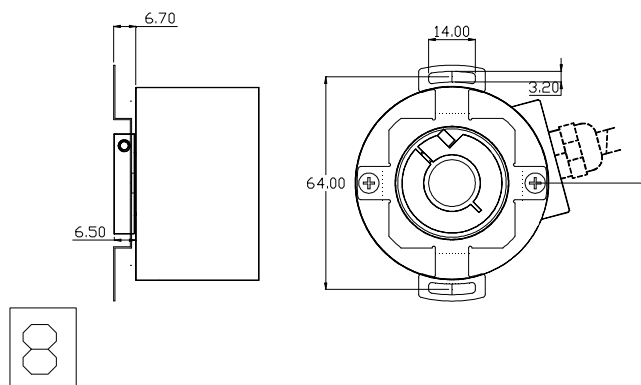
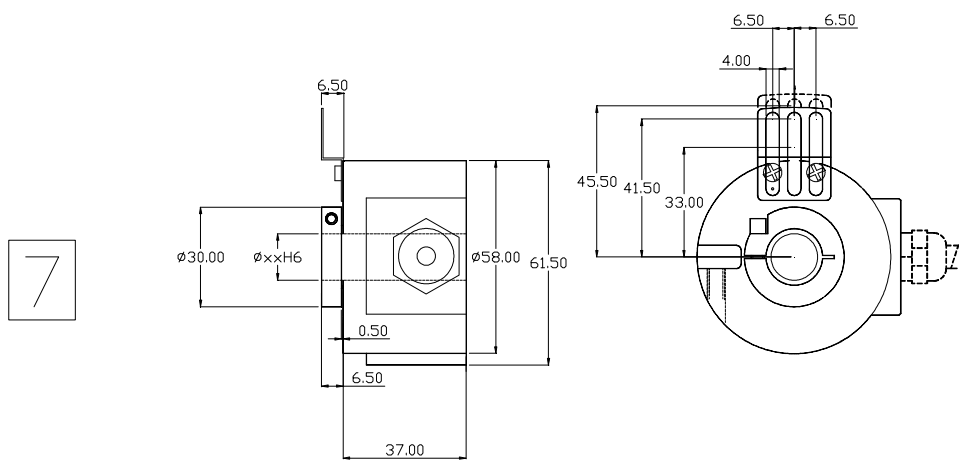
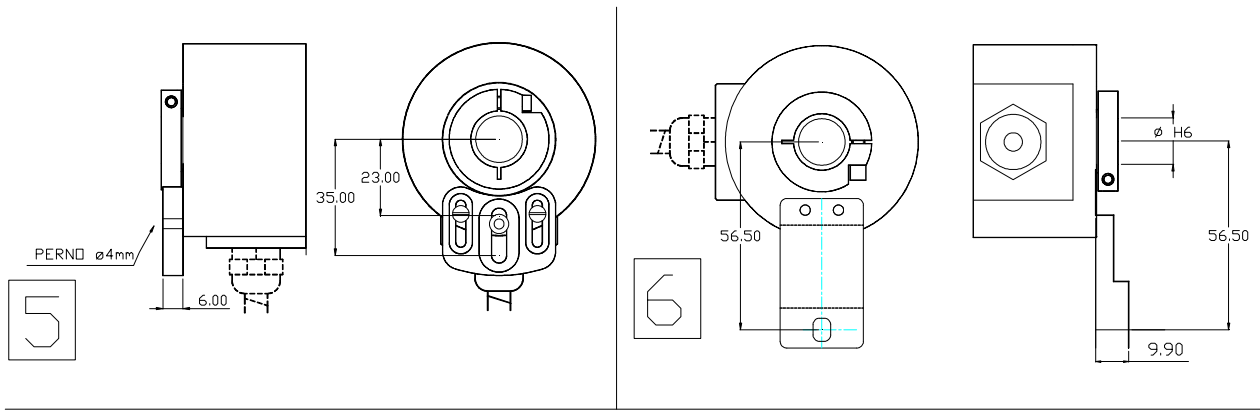
Mechanics Data

Cover:	Aluminium
Body:	Aluminium
Solid shaft:	Stainless steel
Bearings:	2, ballraces
Weight:	Approx.300gr.
Protection:	IP64
Rpm:	6000 Max
Torque:	5Ncm
Inertia:	100gcm ²
Shaft loading:	Axial 50N - Radial 50N (the value decrease when the number of pulses increase)



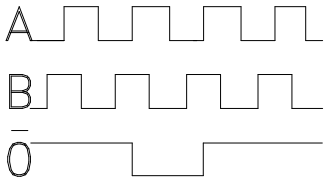
Dimensions in mm





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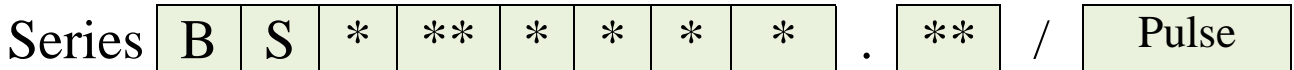
Output signals (cw) 



Power supply: from 5 to 28V depends on the electronics circuit
 Current consumption: 40/100mA depends on the electronics circuit
 Permissible load: max 40mA per channel
 Frequency: 300KHz
 Protections: Against short circuit, reversal polarity
 Operating Temp.: -20/+60°C

Electronics Data

Ordering code



Model
 P = Hollow shaft
 C = Semi (Blind) Hollow shaft

Shaft
 Clamping-ring version flange side
 8M=Ø 08mm
 0M=Ø 10mm
 4M=Ø 14mm
 2M=Ø 12mm
 1M=Ø 15mm
 Clamping-ring version cover side
 2L=Ø 12mm
 Clamping-ring version cover and flange side (double position)
 2P=Ø 12mm
 Grub.screw version (2xM3) flange side
 2G =Ø 12mm
 4G =Ø 14mm

Mechanical Mounting
 1 = See
 2 = previous
 3 = page
 4 =
 5 =
 6 =
 7 =
 8 =

Outputs
 2 = AB PP11/28V
 3 = AB $\bar{0}$ PP11/28V
 N = AB+AB PP11/28V
 P = AB0+AB $\bar{0}$ PP11/28V
 B = AB OC11/28V
 C = AB $\bar{0}$ OC11/28V
 G = AB NPN 11/28V
 H = AB $\bar{0}$ NPN 11/28V
 5 = AB+AB Line Driver 5V
 6 = AB0+AB $\bar{0}$ Line Driver 5V
 8 = AB+AB LD5/12V
 9 = AB0+AB $\bar{0}$ LD5/12V
 W= AB0+AB $\bar{0}$ 1Vpp
 Y = AB0+AB $\bar{0}$ 1Vpp (pulses)
 CD+CD 1Vpp (1 pulse)
 K= AB0+AB $\bar{0}$ 8/28V out 5V LD

Connections
 2 = 9414 Rad 5p
 3 = Cable Rad
 5 = 9416 Rad 12p
 B = 9415 Rad 9p
 K = 94M12 Rad 5p
 T = 94M12 Rad 8p

Option
 0 = None
 1 = High zero pulse
 Z = Synchronised zero Pulse to 180° only for Line Driver
 W= Synchronised zero Pulse to 90° only for Line Driver
 A = Special connections
 Y = Power supply 5/12V for output NPN/OC/PP
 U = **Power Supply5/28V** For output 2-3-N-P with TTL level output
 · Low level output <0.5V
 · High level output > +VCC-1.9V
 S = Power supply 5V for output W and Y
 T = Power supply 8/24V for output

Special Option: On request

Connections

	0 Volt	+ Volt	A	B	\bar{A}	\bar{B}	0	$\bar{0}$
Cable 5 Poles	White	Brown	Green	Yellow				Gray
Cable 8 Poles	Black	Blue	Brown	Beige	Green	Yellow	Pink	Violet
Connector 9414	Pin1	Pin2	Pin3	Pin4				Pin5
Connector 9416-9415	Pin1	Pin2	Pin3	Pin4	Pin5	Pin6	Pin7	Pin8
Connector 94M12 5P	Pin3	Pin1	Pin2	Pin4			Pin5	
Connector 94M12 8P	Pin7	Pin2	Pin1	Pin4	Pin3	Pin5	Pin6	Pin8