

# Series BSP/BSC

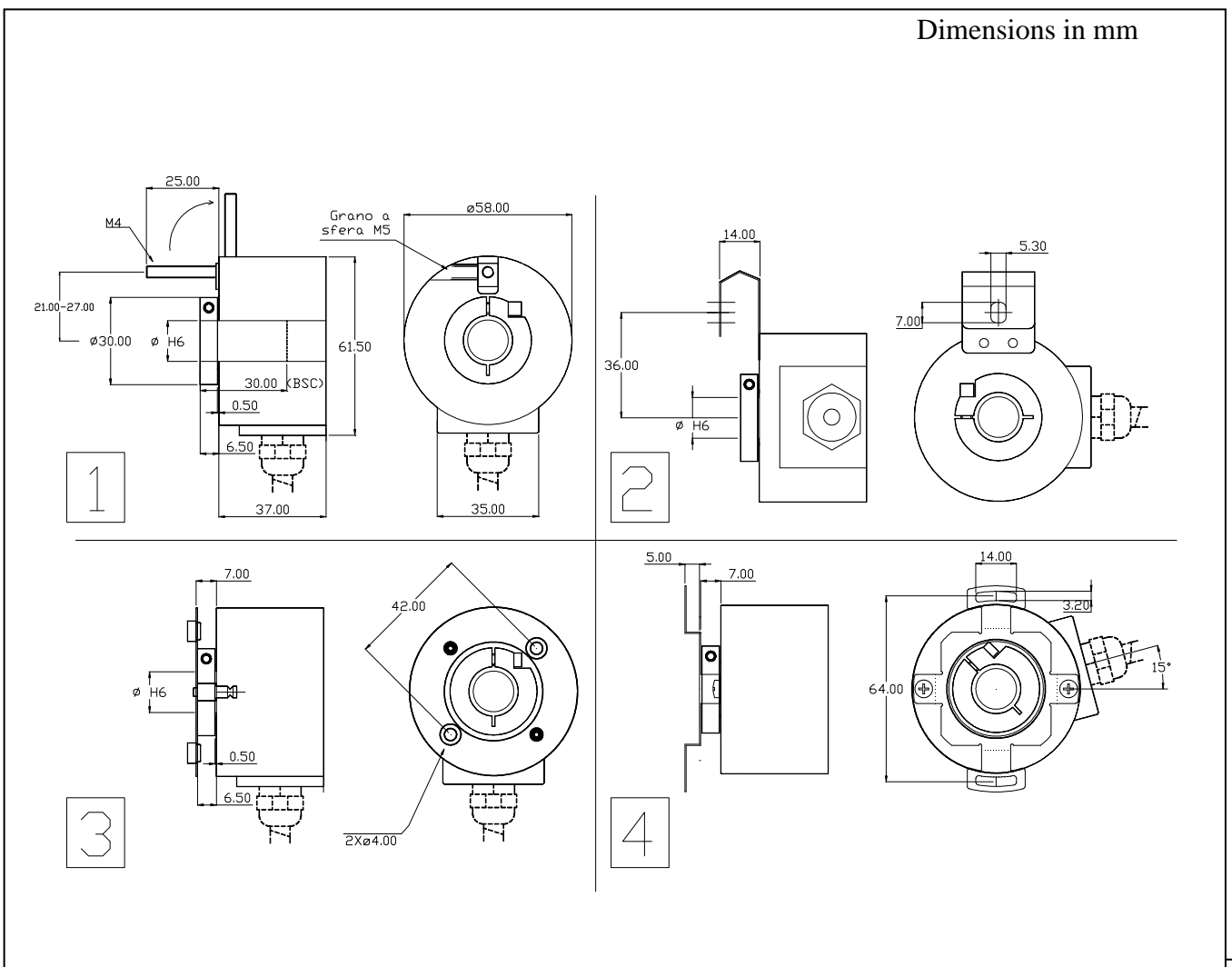
## Incremental hollow and semi-hollow shaft encoder

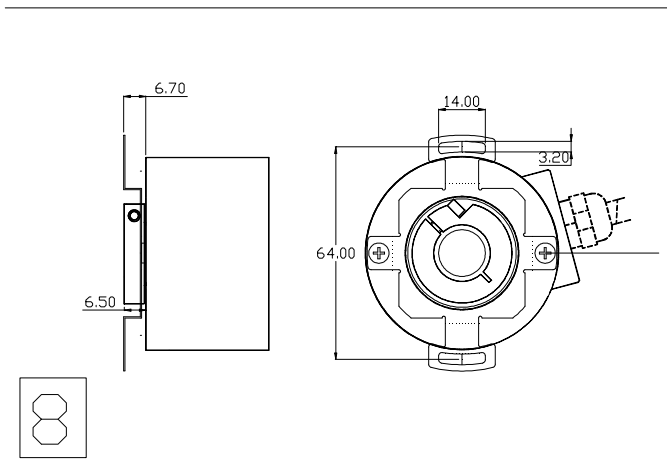
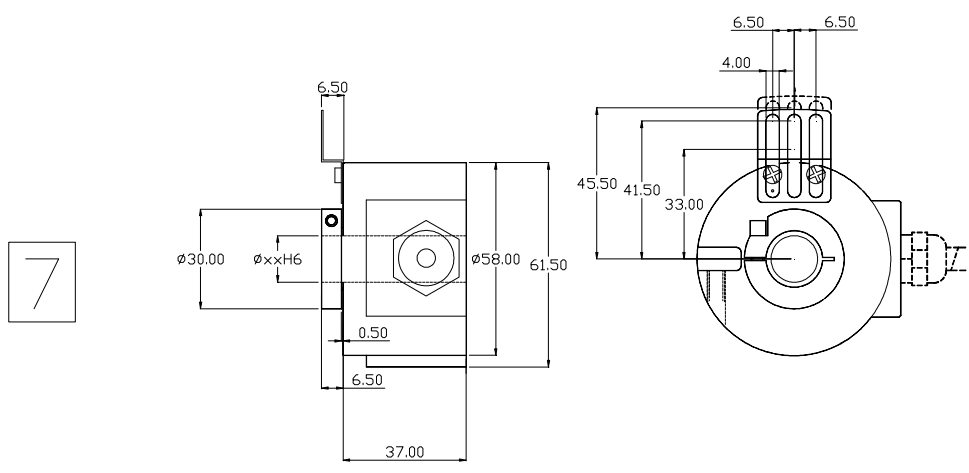
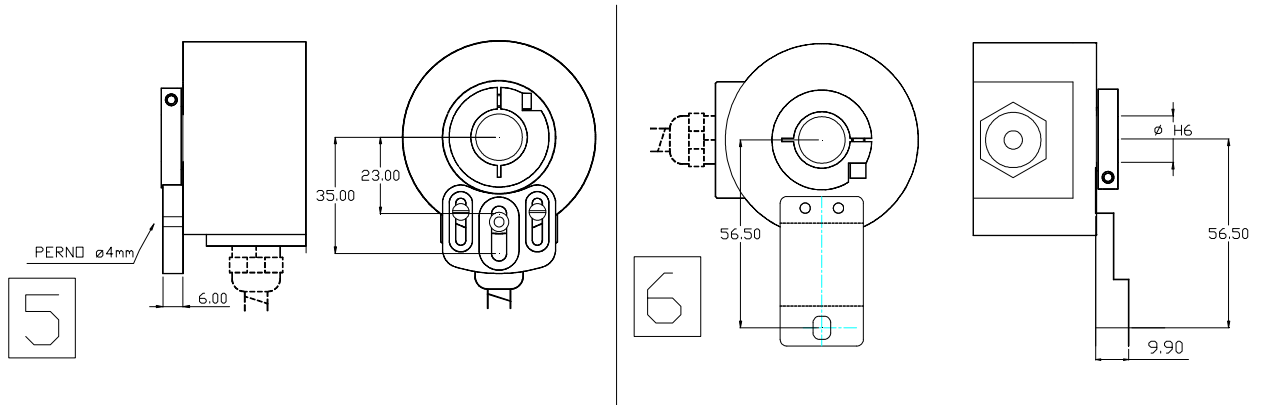
### Mechanics Data

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




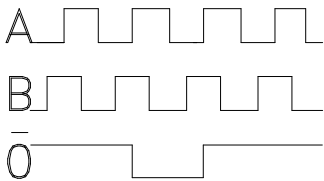
Dimensions in mm





**Serie BSP/BSC**

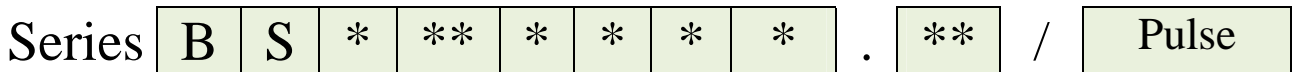
Output signals (cw) 



Power supply: from 5 to 24V depends on the electronics circuit  
 Current consumption: 40/80mA depends on the electronics circuit  
 Permissible load: 40mA  
 Frequency: 300KHz  
 Protections: Against short circuit, reversal polarity  
 Operating Temp.: -20/+60°C

**Electronics Data**

**Ordering code**



**Model**  
 P = Hollow shaft  
 C = Semi hollow Shaft

**Shaft**  
 Clamping-ring version  
 8M=Ø 08mm  
 0M=Ø 10mm  
 2M=Ø 12mm  
 1M=Ø 15mm  
 Grub.screw version (2xM3)  
 2G=Ø 12mm  
 4G=Ø 14mm

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

**Outputs**  
 2 = AB PP11/28V  
 3 = AB0 PP11/28V  
 N = AB+AB PP11/28V  
 P = AB0+AB0 PP11/28V  
 B = AB OC11/28V  
 C = AB0 OC11/28V  
 G = AB NPN 11/28V  
 H = AB0 NPN 11/28V  
 5 = AB+AB LD5V  
 6 = AB0+AB0 LD5V  
 8 = AB+AB LD5/12V  
 9 = AB0+AB0 LD5/12V  
 W = AB0+AB0 1Vpp  
 Y = AB0+AB0 1Vpp (pulses)  
 CD+CD 1Vpp (1 pulse)

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

**Special Option: On request**  
**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 = **Output** 2,3,N,P with TTL compatible 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 W and Y

**Connections**

	0 Volt	+ Volt	A	B	A̅	B̅	0	0̅
<b>Cable 5 Poles</b>	White	Brown	Green	Yellow				Gray
<b>Cable 8 Poles</b>	Black	Blue	Brown	Beige	Green	Yellow	Pink	Violet
<b>Connector 9414</b>	Pin1	Pin2	Pin3	Pin4				Pin5
<b>Connector 9416-9415</b>	Pin1	Pin2	Pin3	Pin4	Pin5	Pin6	Pin7	Pin8
<b>Connector 94M12 5P</b>	Pin3	Pin1	Pin2	Pin4			Pin5	
<b>Connector 94M12 8P</b>	Pin7	Pin2	Pin1	Pin4	Pin3	Pin5	Pin6	Pin8