

# Series HC

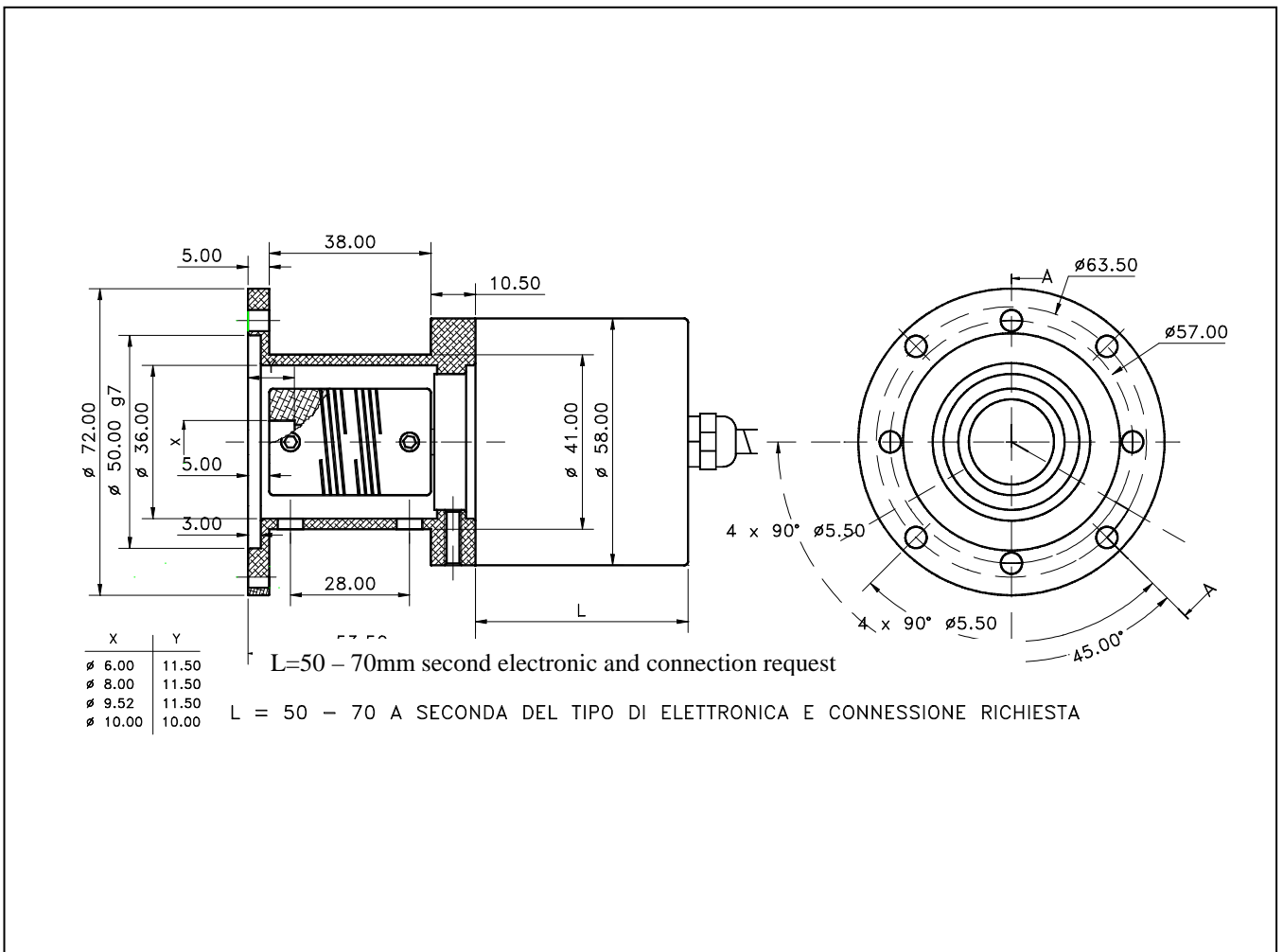
Incremental shaft encoder, high resolution with incorporated couplings



## Mechanics Data

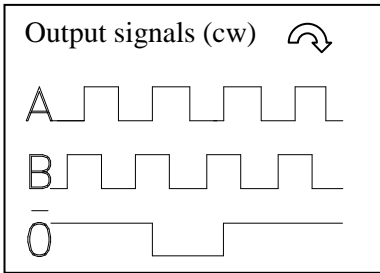
Cover:	Aluminium
Body:	Aluminium
Solid shaft:	Stainless steel
Attachment semi-hollow:	Coupling brass
Bearings:	2, ballraces
Weight:	Approx.300gr.
Protection:	IP65
Rpm:	6000 Max
Torque:	5Ncm
Inertia:	100gcm <sup>2</sup>
Shaft loading:	Axial 100N - Radial 100N (the value decrease when the number of pulses increase)

Dimensions in mm.



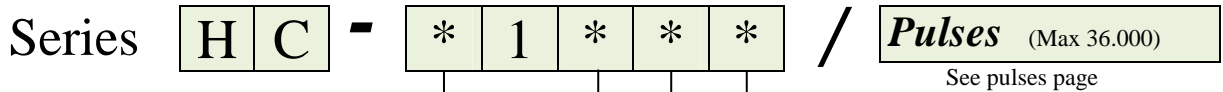
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## Electronics Data



Power supply: from 5 to 24V depends on the electronics circuit  
 Current consumption: 40/80mA depends on the electronics circuit  
 Permissible load: 40mA  
 Frequency: 600KHz depends on the electronics circuit  
 Protections: Against short circuit, reversal polarity  
 Operating Temp.: -20/+60°C (-30/+100°C) on request)

### Ordering data



#### Shaft/Coupling

- 3 = Ø6mm
- 6 = Ø8mm
- 4 = Ø9.52mm
- 1 = Ø10mm
- 9 = Ø11mm
- 2 = Ø12mm

#### Outputs

- 2 = AB PP11/28V
- 3 = AB $\bar{0}$  PP11/28V
- N = AB+ $\bar{A}\bar{B}$  PP11/28V
- P = AB $\bar{0}$ + $\bar{A}\bar{B}\bar{0}$  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+ $\bar{A}\bar{B}$  LD5V
- 6 = AB $\bar{0}$ + $\bar{A}\bar{B}\bar{0}$  LD5V
- 8 = AB+ $\bar{A}\bar{B}$  LD5/12V
- 9 = AB $\bar{0}$ + $\bar{A}\bar{B}\bar{0}$  LD5/12V
- S = AB+ $\bar{A}\bar{B}$  LD15/24V(out 12V)
- T = AB $\bar{0}$ + $\bar{A}\bar{B}\bar{0}$  LD15/24V(out 12V)
- K = AB $\bar{0}$ + $\bar{A}\bar{B}\bar{0}$  LD15/24 (out 5V)

#### Connections

- 2 = 9414 Radial
- 0 = 9414 Axial
- 3 = Cable Radial
- 9 = Cable Axial
- 4 = 9418 Radial
- 6 = 9418 Axial
- 5 = 9416 Radial
- E = 9416 Axial
- 7 = 9419 Radial
- 8 = 9419 Axial
- B = 9415 Radial
- A = 9415 Axial
- N = 9413 Axial

#### Options

- 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

### Connections

	0 Volt	+ Volt	A	B	$\bar{A}$	$\bar{B}$	0	$\bar{0}$
<b>Cable 5 Pole</b>	White	Brown	Green	Yellow				Gray
<b>Cable 8 Pole</b>	Black	Blue	Brown	Beige	Green	Yellow	Pink	Violet
<b>Connector 9414</b>	Pin1	Pin2	Pin3	Pin4				Pin5
<b>Connector 9416-9415-9413</b>	Pin1	Pin2	Pin3	Pin4	Pin5	Pin6	Pin7	Pin8
<b>Connector 9418</b>	PinA	PinB	PinC	PinD	PinE	PinF		PinG
<b>Connector 9419</b>	PinA	PinB	PinC	PinD	PinE	PinF	PinG	PinH