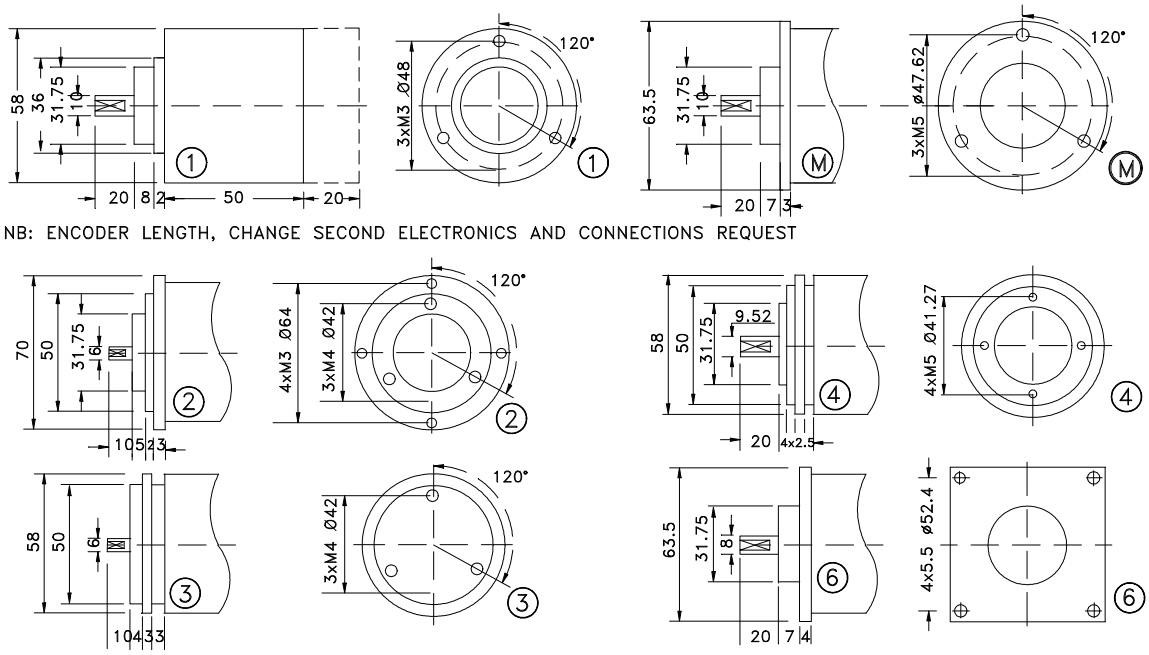
Series H

Incremental shaft encoder, high resolution

Mechanics Data

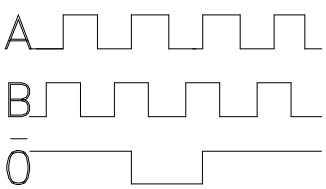
Cover:	Aluminium
Body:	Aluminium
Solid shaft:	Stainless steel
Bearings:	2, ballraces
Weight:	Approx.300gr.
Protection:	IP65
Rpm:	6000 Max
Torque:	5Ncm
Inertia:	100gcm²
Shaft loading:	Axial 100N - Radial 100N (the value decrease when the number of pulses increase)

Dimensions in mm.



Series H

Output signals (cw)



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:	to 600KHz depends on the electronics circuit (100 KHz sinusoidal version)
Protections:	Against short circuit, reversal polarity
Operating Temp.:	-20/+60°C (-30/+100°C) on request 0/+60° sinusoidal version

Ordering code

Series **H** - ***** ***** ***** ***** ***** / ***Pulses*** (Max 36.000)

See page pulses

Shaft

3 = Ø6mm
6 = Ø8mm
4 = Ø9.52mm
1 = Ø10mm

On request
2 = Ø12mm

Flange

1 =
2 = see
3 = previous
4 = page
6 =
M=

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
S = AB+AB		LD15/24V(out 12V)
T = AB0+AB0		LD15/24V(out 12V)
K = AB0+AB0		LD15/24 (out 5V)
W = AB0+AB0		1Vpp (Sin-Cos)
Y = AB0+AB0		1Vpp (pulses)(Sin-Cos)
CD+CD		1Vpp (1 pulse)(Sin-Cos)

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
U = Power supply 5/30V outputs PP

Sin-Cos version
S = 5 Volt
T = 8/24 Volt

Option U: *outputs levels compatible TTL · Low level output <0.5V · High level output > +VCC-1,9V*

Connections

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