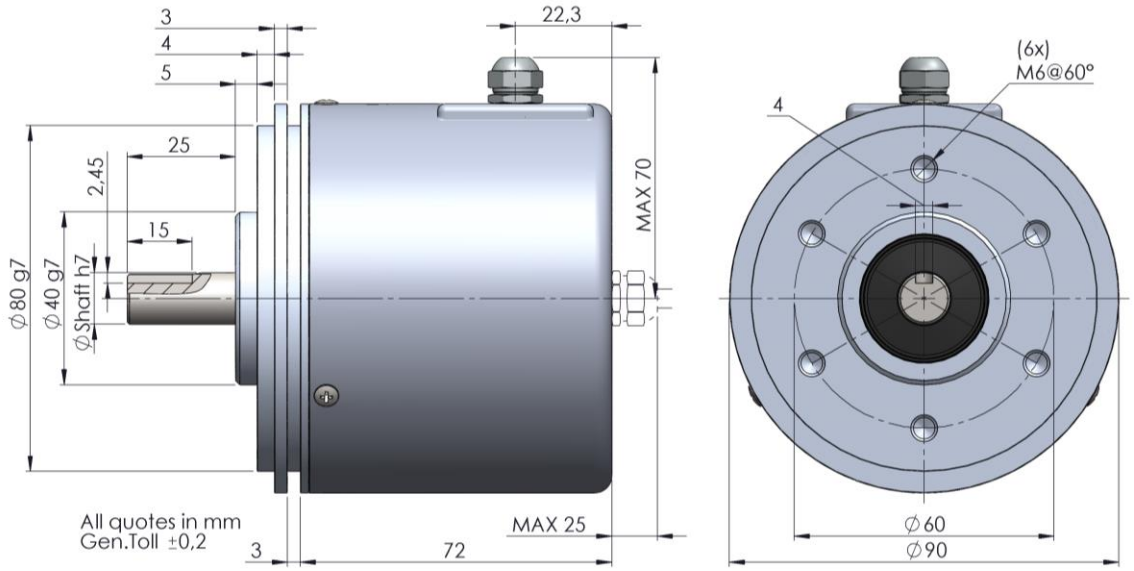
TS

Absolute encoder parallel or analogue (ø90mm)

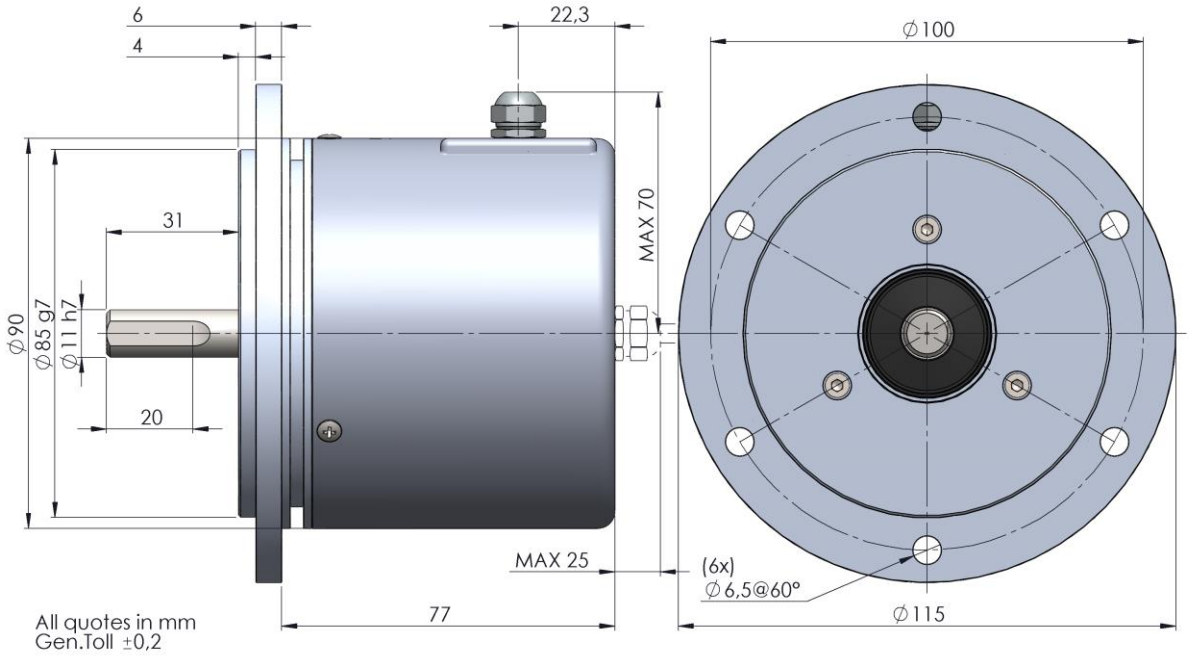
Mechanics Data

Cover:	Aluminium
Body:	Aluminum
Shaft:	Stainless steel
Bearings:	Ballraces
Weight:	300gr
IP Protection:	IP65
RPM:	6000 Max
Torque:	5Ncm
Inertia :	270gcm²
Shaft Loading:	Axi 100N - Rad 100N

Version 1,2



Version 3


6
4
22,3
∅100
31
MAX 70
∅90
∅85 g7
∅11 h7
20
MAX 25
(6x)
∅6,5@60°
77
∅115
All quotes in mm
Gen.Toll ±0,2

TS

Electronics Data

Power supply: 5 / 28V depends on the electronics circuit
Current consumption: max 100mA
Permissible load: 40mA
Frequency : 100KHz (LSB)
Protections: Against short circuit, reversal polarity
Operating Temp: -20/+70°C

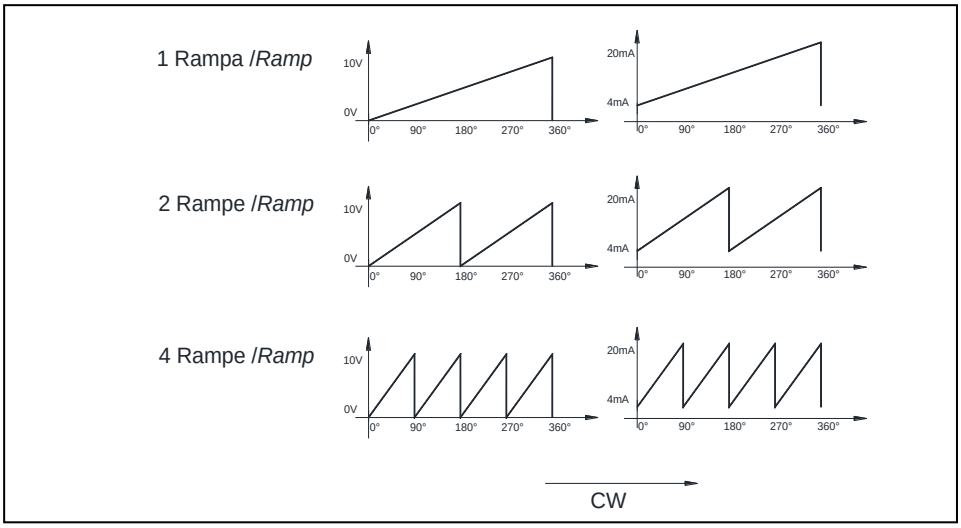
Ordering code

TS	*	3		*	*	*	/	**
	Version		**Output**	**Connections**		**Options**		**Resolutions**
	1 = Shaft Ø 10mm Flan Ø 90mm 2 = Shaft Ø 12mm Fla Ø 90mm 3 = Shaft Ø 11mm Fla Ø 115mm	3	**Digital output** 1 = Gray/Bin NPN 11/28V 2 = Gray/Bin PP 11/28V 3 = Gray/Bin TTL 5V 5 = BCD NPN 11/28V 6 = BCD PP 11/28V 7 = BCD TTL 5V **Analog output** C = 4-20mA D = 0-10V Power Supply 24V	**Cable** 1 = Cable **M23 16p** 2 = 9426 **SUB-D 25p** 3 = 9413 **MIL 26p** 4 = 9428 **MIL 32p** 5 = 9432 **M23 12p** 6 = 9416 **MIL 19p** 9 = 9429	A = Axi R = Rad	0 = None 1 = Latch 2 = Reset 4 = Tristate 9 = Gray Exc		Max 8192 _____ *Analog Output* R1 = 1 rampa/giro *1 ramp/turn* R2 = 2 rampe/giro *2 ramp/turn* R4 = 4 rampe/giro *4 ramp/turn*

Analog output

Power Supply 24V –Only connections 5 , 2 (9416)

Connections 9416	
1	-
2	+
3	Iout+ (4-20mA)
4	
5	Vout + (0-10V)
6	
7	Ud/Down
8	
9	
10	
11	
12	



Digital output

Connections																
Code: Gray/Binary	**0 Volt**	**+ Volt**	**0 2**	**1 2**	**2 2**	**3 2**	**4 2**	**5 2**	**6 2**	**7 2**	**8 2**	**9 2**	**10 2**	**11 2**	**G/B**	**DIR <->**
Code: BCD			**0 10**				**1 10**				**2 10**					
	0 Volt	**+ Volt**	**1**	**2**	**4**	**8**	**1**	**2**	**4**	**8**	**1**	**2**	**4**	**8**	**M**	**DIR <->**
Connector: 9413 - 9426 -9428 - 9432	**P1**	**P2**	**P3**	**P4**	**P5**	**P6**	**P7**	**P8**	**P9**	**P10**	**P11**	**P12**	**P13**	**P14**	**P15**	**P16**
Cable	BLACK	BLUE	BROWN	BEIGE	GREEN	YELLOW	PINK	VIOLET	ORANGE	TRASPAR	WHITE RED	WHITE BLUE	GREEN WHITE	VIOLET WHITE	YELLOW GREEN	YELLOW WHITE

M = optional outputs:
DIR <-> = is the signal direction: clockwise or anticlockwise
Clockwise standard
Anticlockwise connect DIR <-> to **0Volt**
Gray code standard. For Binary code connect pin G/B to **0Volt**