

# SS-SSM



Encoder assoluto SSI con uscite sin cos fino a 33 bit .  
Singolo giro e multi giro  
*Absolute Encoder SSI and sin-cos ø58mm up to 33Bits  
with Reset single turn and multiturn*

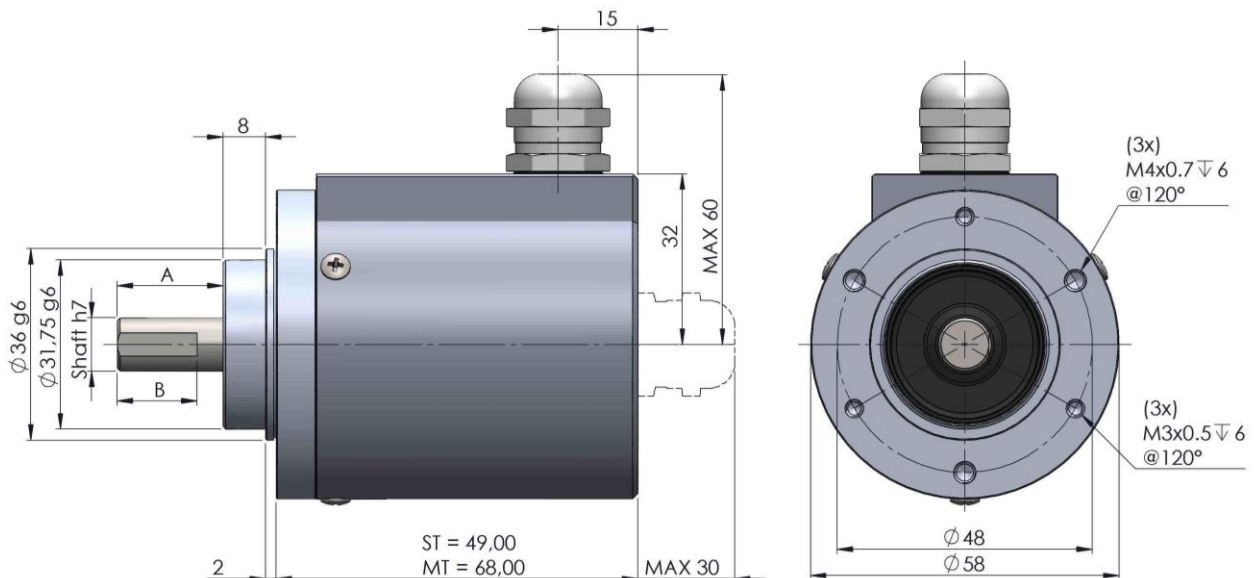
## Dati Meccanici / Mechanics data

**Custodia / Cover:** Alluminio naturale / Aluminium  
**Flangia/ Body:** Alluminio naturale/ Aluminium  
**Albero/ Shaft:** Acciaio INOX / Stainless steel  
**Cuscinetti/ Bearings:** 2 a sfere /2 ballraces  
**Peso/ Weight:** 400gr.  
**Classe protezione/ IP protection:** IP65  
**Giri/min - RPM:** 6000 Max  
**Coppia / Torque:** 5Ncm  
**Momento inerzia / Inertia:** 100gcm<sup>2</sup>  
**Carico sull'albero/ Shaft Load:** Axi. 50N - Rad 50N



x1 : Clamping Flange

Shaft ø10mm ; A= 20mm ; B = 15mm  
Shaft ø6mm ; A = 10mm ; B = 9mm

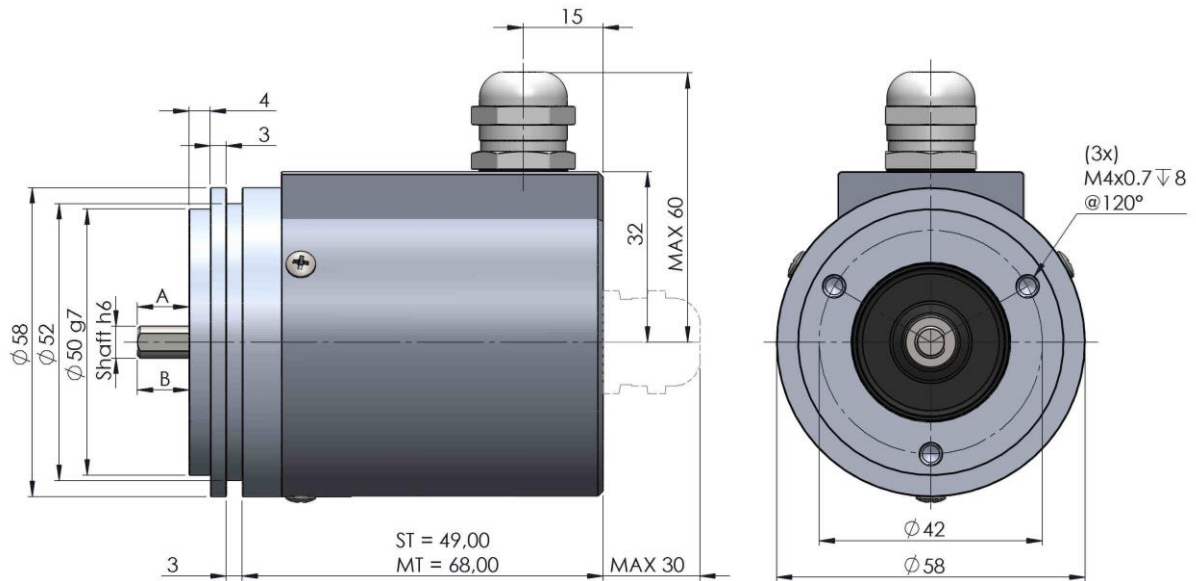


All quotes in mm  
Gen.Toll  $\pm 0,2$

Nota: Tutte le immagini sono puramente indicative e non possono essere considerate vincolanti ai fini della fornitura  
*All images are indicative and can not be considered binding the purpose of supplying*

**x3 : Synchro Flange**

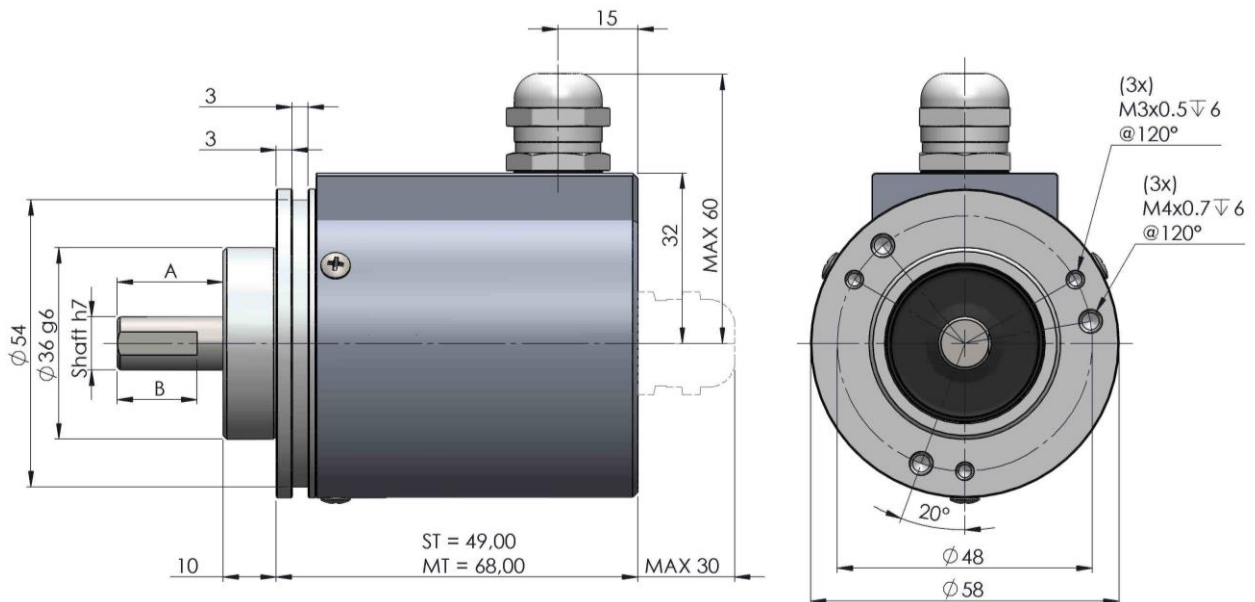
Shaft  $\phi 6\text{mm}$  ; A= 10mm ; B = 9mm  
Shaft  $\phi 10\text{mm}$  ; A= 20mm ; B = 15mm



All quotes in mm  
Gen.Toll  $\pm 0,2$

**xH : Clamping Type H**

Shaft  $\phi 10\text{mm}$  ; A= 20mm ; B = 15mm  
Shaft  $\phi 6\text{mm}$  ; A = 10mm ; B = 9mm



All quotes in mm  
Gen.Toll  $\pm 0,2$

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## Dati Elettronici / Electronics Data

<b>Risoluzione / Resolution:</b>	ST: Single turn max 17 Bit MT: Multiturn 33 bit (17 Bit ST - 16bit MT)
<b>Alimentazione / Power Supply:</b>	10-28V +/- 5%
<b>Assorbimento / Current Cons.</b>	160mA
<b>Interfaccia / Interface</b>	SSI
<b>Monoflop</b>	20usec
<b>Uscita Dati / Output Data:</b>	RS422
<b>Codice / Type of Code:</b>	Gray / Binary
<b>Temperatura di lavoro / Operating temperature:</b>	Standard -20 / +70°C (-40°+100° a richiesta /on request)

## Esempio d'ordine/ Ordering code

***	*	*	*	*	*	/	** / **
Serie Series	Albero Shaft	Flangia Flanges	Uscite Output	Connessioni Connections	Opzioni Options		BIT / BIT
SS = Singleturn SSM = Multiturn	3 = ø 6mm L = 10 1 = ø 10mm L = 20	1 = Vedi pag 3 = preced. H = See prev page	3 = SSI Gray 4 = SSI Binary  5 = SSI Gray + SinCos 2048 1Vpp	<b>Cavo / Cable</b> 9 = Cable Axi 3 = Cable Rad <b>M23 12p</b> 1 = 9416 Axi CW 2 = 9416 Rad CW 4 = 9416 Axi CCW 5 = 9416 Rad CCW <b>M12 8p</b> S=94M12 Axi T=94M12 Rad	0= None 5 = 5 Volt K= Connection K Z = Preset (push button on cover) W = Preset on connector or cable		Single Turn  12 13 14 15 16 17  Multi Turn  12 16

Cable Standard	9416 12P Standard connection	9416 12P Connection K	94M12 8p		
Beige / Beige	1	12	1	0V	0V
Giallo / Yellow	2	3	3	DATA+	Output Data +
Blu / Blue	3	1	5	CLOCK+	Input Clock +
Verde / Green	4	5		A	Channel A (SinCos version)
Nero / Black	5	8	8	UP/DOWN	Counting direction
Rosa / Pink	6	6		B	Channel B (SinCos version)
Verde/Giallo · Green/Yellow	7	7		A-	Channel A- (SinCos version)
Marrone / Brown	8	11	2	+VCC	+Vcc
Viola / Violet	9	10		B-	Channel B- (SinCos version)
Bianco/Giallo · White/Yellow	10	4	4	DATA-	Output Data -
Bianco/Blu · White/Blue	11	2	6	CLOCK-	Input Clock -
Arancione · Orange	12	nc		GND OUT	Internally connected with Pin 1 (without option W)
				PRESET	With option W
			7	PRESET	With option W

Canali A, A/, B, B/ presenti solo con uscite 5 *Channel A, /A, B, /B, present only with output 5*

	<b>Open or Vcc</b>	<b>GND</b>
<b>UP/DOWN</b>	UP (CW)	DOWN (CCW)
	<b>Open or Vcc</b>	<b>GND (50msec)</b>
<b>PRESET</b>	Per azzerare l'encoder collegare a GND per Min 50msec / To Preset encoder in position 0 connect to GND min 50msec	

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