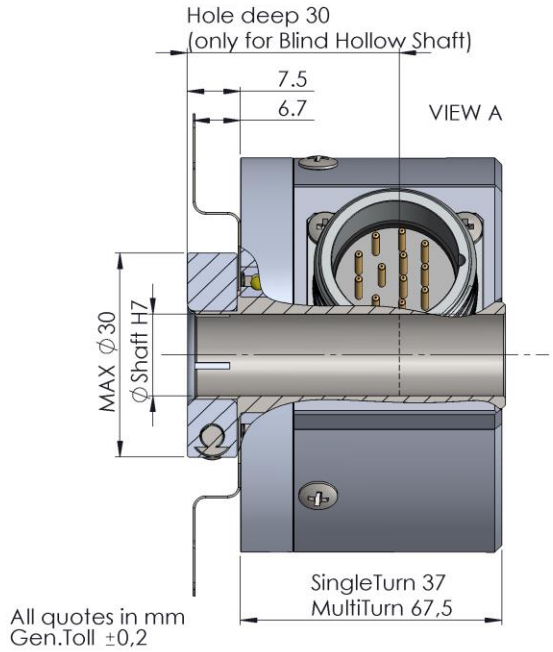
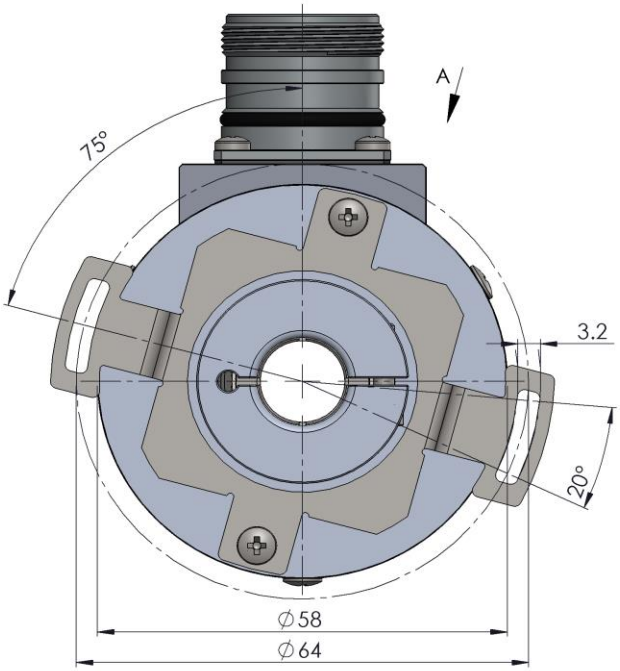
SAS-SAM

Absolute Encoder SSI with sin-cos output ø58mm up to 33Bits single turn and multiturn hollow and blind hollow shaft

Mechanics data

Cover:	Aluminium
Body:	Aluminium
Shaft:	Stainless steel
Bearings:	2 ballraces
Weight:	400gr.
IP protection:	IP64
RPM:	6000 Max
Torque:	< 0.5Ncm
Inertia:	20gcm²
Shaft Load:	Axi. 50N - Rad 50N





SAS-SAM

Electronics Data

Resolution:	ST: Single turn max 17 Bit MT:Multiturn 33 bit (17 Bit ST - 16bit MT)
Power Supply:	10-28V +/- 5%
Current Cons	Max 160mA
Interface	SSI
Monoflop Time	20usec
Output Data:	RS422
Type of Code:	Binary / Gray
Operating temp.:	Standard -20 / +80°C

Ordering code

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Series	**Shaft**	**Flanges**	**Output**	**Connections**	**Options**		**BIT / BIT**	
	Blind Hollow shaft						Single Turn	Multi Turn
SAS = Single Turn **SAM** = Multi Turn	A = Ø 8mm B = Ø 10mm C = Ø 12mm D = Ø 14mm E = Ø 15mm	8	3 = SSI Gray 4 = SSI Binary 5 = SSI Gray + SinCos 2048 1Vpp	**Cable** 9=Cable Axi 3=Cable Rad **M23 12p** 1=9416 Axi CW 2=9416 Rad CW 4=9416 Axi CCW 5=9416 Rad CCW **M12 8p** S=94M12 Axi T=94M12 Rad	0= None 5 = 5 Volt K= Connection K on 9416 Z = Preset (push button on cover) W = Preset on connector or cable		12 13 14 15 16 17	12 16

Hollow shaft							Single Turn
SAS = Single Turn	F = Ø 8mm G = Ø 10mm H = Ø 12mm L = Ø 14mm M = Ø 15mm	8	3 = SSI Gray 4 = SSI Binary 5 = SSI Gray + SinCos 2048 1Vpp	**Cable** 3=Cable Rad **M23 12p** 2=9416 Rad CW 5=9416 Rad CCW **M12 8p** T=94M12 Rad	0= None 5 = 5 Volt K= Connection K on 9416 Z = Preset (push button on cover) W = Preset on connector or cable		12 13 14 15 16 17

Cable Standard	9416 12P Standard connection	9416 12P Connection K	94M12 8p		
Beige	**1**	**12**	**1**	**0V**	0V
Yellow	**2**	**3**	**3**	**DATA+**	Output Data +
Blue	**3**	**1**	**5**	**CLOCK+**	Input Clock +
Green	**4**	**5**		A	Channel A (SinCos version)
Black	**5**	**8**	**8**	**UP/DOWN**	(default: CW increase, to invert connect this pin to 0V)
Pink	**6**	**6**		**B**	Channel B (SinCos version)
Green/Yellow	**7**	**7**		A-	Channel A- (SinCos version)
Brown	**8**	**11**	**2**	**+VCC**	+Vcc
Violet	**9**	**10**		B-	Channel B- (SinCos version)
White/Yellow	**10**	**4**	**4**	**DATA-**	Output Data -
White/Blue	**11**	**2**	**6**	**CLOCK-**	Input Clock -
Orange	**12**	**nc**		**GND OUT**	Internally connected with Pin 1 (without option W)
				PRESET	With option W
			7	**PRESET**	With option W
Channel A, /A, B, /B, present only with output 5					

	Open or Vcc	**GND**
UP/DOWN	UP (CW)	DOWN (CCW)
	Open or Vcc	**GND (50msec)**
PRESET	To Preset encoder in position 0 connect to GND min 2sec	

All images are indicative and can not be considered binding the purpose of supplying