

Serie SAS & SAM

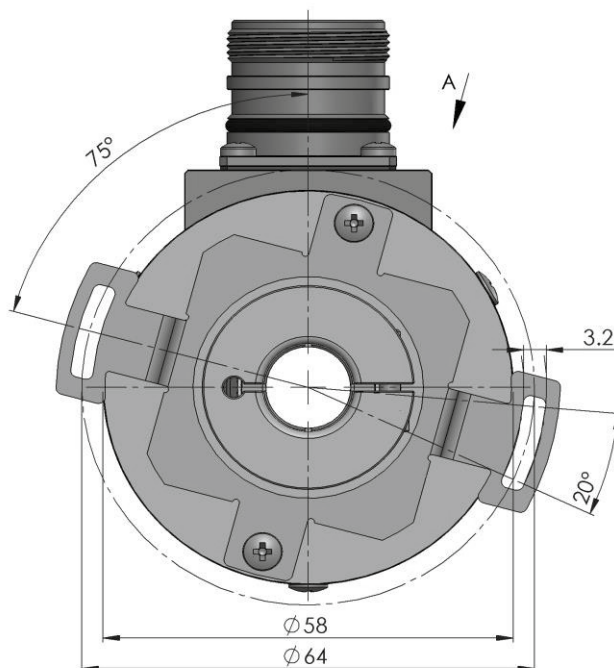
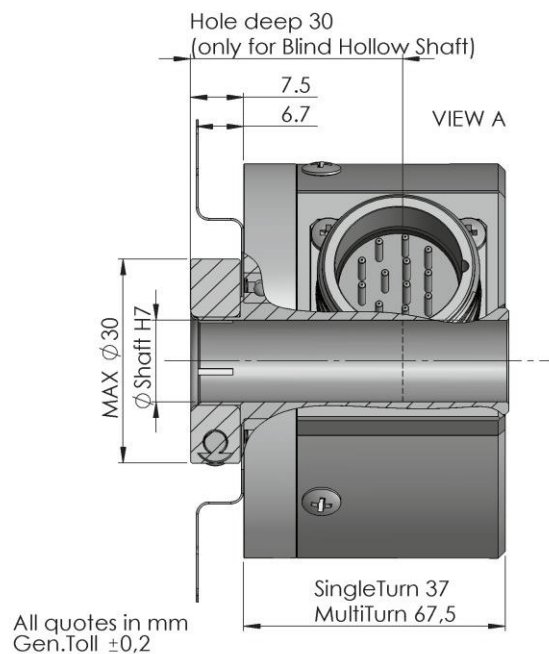
Series SAS & SAM

Absoluter Drehgeber
mit SSI und Sin / Cos Schnittstelle, 58 mm Gehäusedurchmesser,
bis zu 33 Bit, Single- und Multiturn, Hohl- oder Steckwelle

Absolute rotary encoder
with SSI and sin-cos interface, 58 mm body diameter,
up to 33 Bits, single- and multiturn, hollow or blind hollow shaft

Mechanische Daten

Haube / Cover:	Aluminium
Flansch / Body:	Aluminium
Welle / Shaft:	Edelstahl / Stainless steel
Kugellager / Bearings:	doppelt gelagert / 2 ballraces
Gewicht / Weight:	400 g
IP Schutzart / IP protection:	IP64
Umdrehungen / RPM:	max. 6000
Drehmoment / Torque:	< 0.5Ncm
Trägheitsmoment / Inertia:	20gcm ²
Wellenbelastung / Shaft Load:	Axial 50N – Radial 50N



Elektronische Daten / Electronics Data

Auflösung / Resolution:	ST: Single turn max 17 Bit MT: Multiturn 33 bit (17 Bit ST - 16bit MT)
Versorgungsspannung / Power Supply:	10-28 V +/- 5%
max. Stromaufnahme / Current Cons.:	max. 160 mA
Schnittstelle / Interface:	SSI / BiSS C
Monoflop / Monoflop:	20 usec
Ausgangsdaten / Output Data:	RS422
Codeart / Type of Code:	Binary / Gray
Betriebstemperatur / Operating temperature:	Standard -20° / +80° C (-40°+100° C auf Anfrage / on request)

Bestellbezeichnung / Ordering Code

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Serie / Series	Welle / Shaft	Flansch / Flange	Ausgang / Output	Anschlüsse / Connections	Optionen / Options		BIT
Steckwelle / Blind Hollow Shaft							
SAS = Singleturn SAM = Multiturn	A = Ø 8 mm B = Ø 10 mm C = Ø 12 mm D = Ø 14 mm E = Ø 15 mm	8	3 = SSI Gray 4 = SSI Binary 5 = SSI Gray + SinCos 2048 1Vpp	Kabel / 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) W = Preset (on cable or connector)		Single Turn 12 13 14 15 16 17 Multi Turn 12 16
Hohlwelle / Hollow Shaft							
SAS = Singleturn	F = Ø 8 mm G = Ø 10 mm H = Ø 12 mm L = Ø 14 mm M = Ø 15 mm	8	3 = SSI Gray 4 = SSI Binary 5 = SSI Gray + SinCos 2048 1Vpp	Kabel / 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 W = Preset (on cable or connector)		Single Turn 12 13 14 15 16 17

Anschlüsse / Connections

Kabel Standard Cable Standard	9416 12P Standardanschluss Standard connection	9416 12P Anschluss K Connection K		
Blau	3	1	CLOCK+	Input Clock +
Weiß-Blau	11	2	CLOCK-	Input Clock -
Gelb	2	3	DATA+	Output Data +
Weiß-Gelb	10	4	DATA-	Output Data -
Grün	4	5	A	Channel A (SinCos version)
Rosa	6	6	B	Channel B (SinCos version)
Grün-Gelb	7	7	A-	Channel A- (SinCos version)
Schwarz	5	8	UP/DOWN	(default: CW increase, to invert connect this pin to 0V)
	12	nc	GND OUT	Internally connected with Pin 1. (only connection K)
Violett	9	10	B-	Channel B- (SinCos version)
Braun	8	11	+VCC	+Vcc
Beige	1	12	0V	0V