

Serie S
Series S

Absoluter Drehgeber
parallel oder analog (ø58mm)
Absolute encoder
parallel or analogue (ø58mm)

Mechanische Daten / Mechanics Data

Haube / Cover:	Alluminio / Aluminum
Flansch / Body:	Aluminium / Aluminum
Welle / Shaft:	Edelstahl / Stainless steel
Kugellager / Bearings:	doppelt gelagert / 2 ballraces
Gewicht / Weight:	300 g
IP Schutzart / IP Protection:	IP65
Umdrehungen / RPM:	max. 6000
Drehmoment / Torque:	5Ncm
Trägheitsmoment / Inertia:	100gcm ²
Wellenbelastung / Shaft Loading:	Axial 100N – Radial 100N



Elektronische Daten / Electronics Data

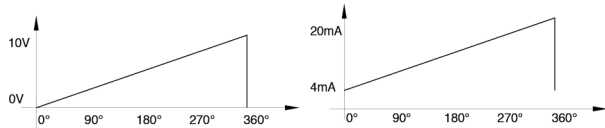
Versorgungsspannung / Power supply:	5/24V, hängt von der Ausgangsschaltung ab / depends on the electronics circuit
max. Stromaufnahme / Current consumption:	max 100mA
max. Ausgangsbelastung / Permissible load:	40mA
Frequenz / Frequency:	50KHz (LSB)
Schutz / Protections:	Kurzschlussfest, Umkehrpolarität / Against short circuit, reversal polarity
Betriebstemperatur / Operating Temp.:	-20/+70°C

Analogausgang / Analogue output

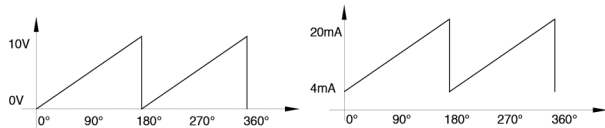
Versorgungsspannung / Power Supply 24V – Nur Anschlüsse 5,2 / Only connections 5, 2 (9416)

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

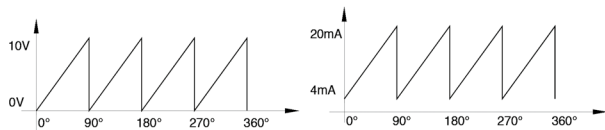
1 Ramp/Ramp



2 Ramp/Ramp



4 Ramp/Ramp



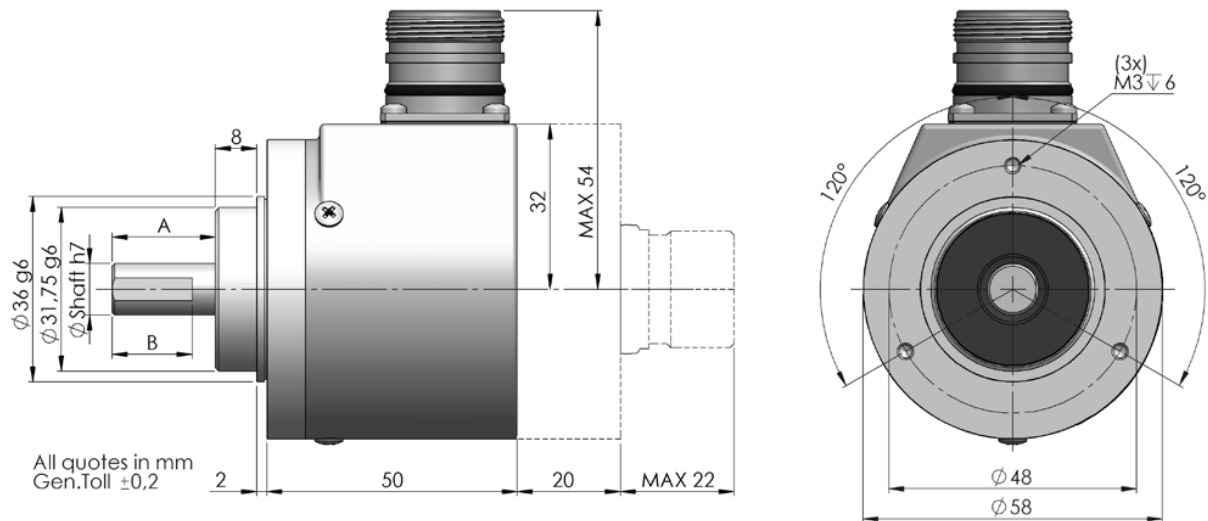
CW →

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

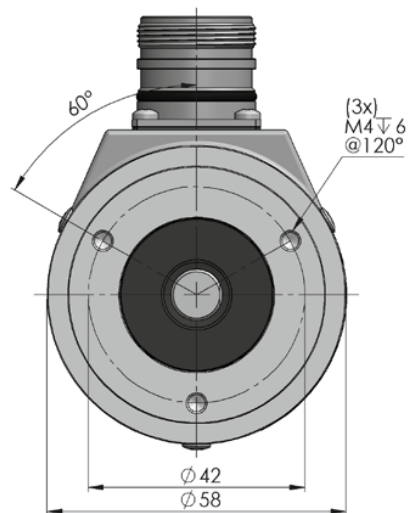
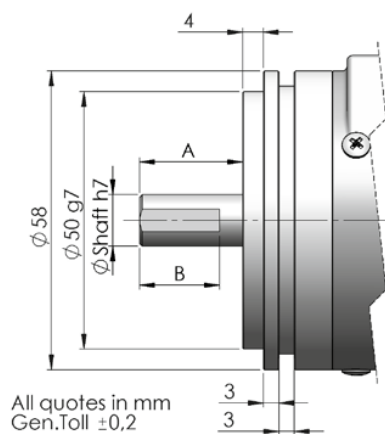
Welle / Shaft

Ø	A	B
6.00 mm	10.00 mm	9.00 mm
8.00 mm	20.00 mm	15.00 mm
10.00 mm	20.00 mm	15.00 mm
12.00 mm	25.00 mm	15.00 mm

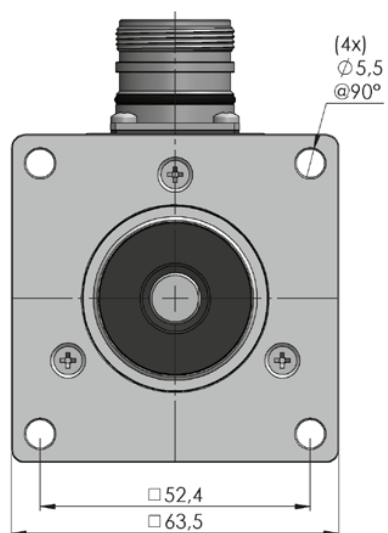
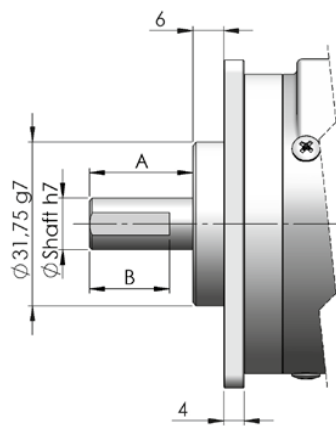
Flansch 1 / Flange 1



Flansch 3 / Flange 3



Flansch 6 / Flange 6



Bestellbezeichnung / Ordering Code

S	*	*	*	*	*	/	**	
	Welle Shaft	Flansch Flange	Ausgangsschaltung Output	Anschluss Connections	Optionen Options		Auflösung Resolution	
3 = ø 6 mm 6 = ø 8 mm 1 = ø 10 mm Auf Anfrage / On request: 2 = ø 12 mm	1 3 6 Siehe vorherige Seiten / See previous pages	Digitalausgang max. 13 Bit (8.192) / Digital output max 13 bit (8.192)						Max 8.192
		1 = GRAY NPN 11/24V 2 = GRAY Push-Pull 11/24V 3 = GRAY TTL 5V 4 = BIN. NPN 11/24V 5 = BIN. Push-Pull 11/24V 6 = BIN. TTL 5V 7 = BCD NPN 11/24V 8 = BCD Push-Pull 11/24V 9 = BCD TTL 5V BCD: Resolution Max 1024	Kabel / Cable 9 = Cable Axi 3 = Cable Rad SUB-D 25p N = 9413 Axi R = 9413 Rad M23 12p/16p 2 = 9416/9426 Axi 5 = 9416/9426 Rad	A = None B = Open Coll. E = GRAY Excess S = Strobe	360 = 360 1.024 = 1.024 4.096 = 4.096 ...			
		Digitalausgang max. 17 Bit (131.072) / Digital output max 17 bit (131.072)						Max 17 bit
		2 = GRAY Push-Pull 11/24V 3 = GRAY TTL 5V 5 = BIN. Push-Pull 11/24V 6 = BIN. TTL 5V	SUB-D 25p N = 9413 Axi R = 9413 Rad	A = None S = Strobe Z = Preset	12C = 4.096 13C = 8.192 ... 17C = 131.072			
		Analog Ausgang Auflösung 14 Bit / Analog output resolution 14 bit						R1 = 1 Ramp/Umdrehung 1 ramp/turn R2 = 2 Ramp/Umdrehung 2 ramps/turn R4 = 4 Ramp/Umdrehung 4 ramps/turn
		C = 4 - 20 mA M = 4 - 20 mA / 0 - 10 V Versorgungsspannung/ Power Supply 24 V	M23 12p/16p 2 = 9416 Axi 5 = 9416 Rad	A = None Z = Preset				

Digitalausgang / Digital output

Anschluss / Connection																
Stecker/Connector	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	M	DIR <->
9416 12p	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11					P12
9426 16p	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
9413 25p	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
Kabel / Cable	S C H W A R Z	B L A U	B R A U N	B E I G E	G R Ü N	G E L B	R O S A	L I L A	O R A N G E	T R A N S P A R E N T	W E I ß	W E I ß	G R Ü N	L I L A	G E L B	G E L B
	B L A C K	B L U E	B R O W N	B E I G E	G R E E N	Y E L L O W	P I N K	V I O L E T	O R A N G E	T R A N S P A R E N T	W H I T E	W H I T E	G R E E N	W H I T E	V I O L E T	Y E L L O W

M = Optionaler Ausgang

DIR <-> Drehrichtung (im bzw. gegen den Uhrzeigersinn): Im Uhrzeigersinn ist Standard, gegen den Uhrzeigersinn DIR <-> bis 0 Volt.

M = Optional output

DIR <-> Signal direction (clockwise or anticlockwise): Clockwise is standard, anticlockwise connect DIR <-> to 0 Volt.