

## 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 <sup>2</sup>
Wellenbelastung / Shaft Loading:	Axial 100N – Radial 100N



### Elektronische Daten / Electronics Data

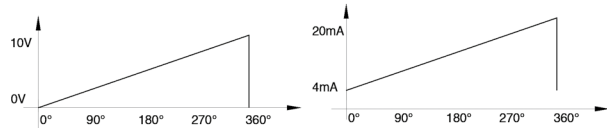
Versorgungsspannung / Power supply:	5/24V, hängt von der Ausgangsschaltung ab depends on the electronics circuit
max. Stromaufnahme / Current consumption:	max 100mA
max. Ausgangsbelastung / Permissible load:	40mA
Frequenz / Frequency:	50KHz (LSB)
Schutz / Protections:	Kurzschlussfest, Umkehrpolarität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

### Analogausgang / Analogue output

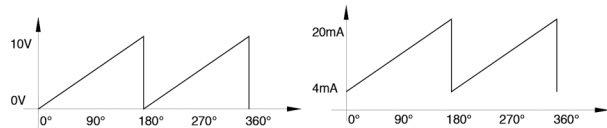
Versorgungsspannung / Power Supply 24V – Nur Anschlüsse 5,2 / Only connections 5, 2 (9416)

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

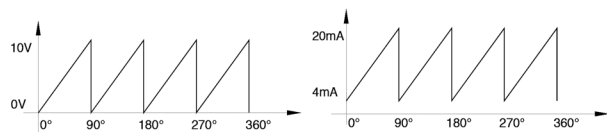
1 Ramp/Ramp



2 Ramp/Ramp



4 Ramp/Ramp



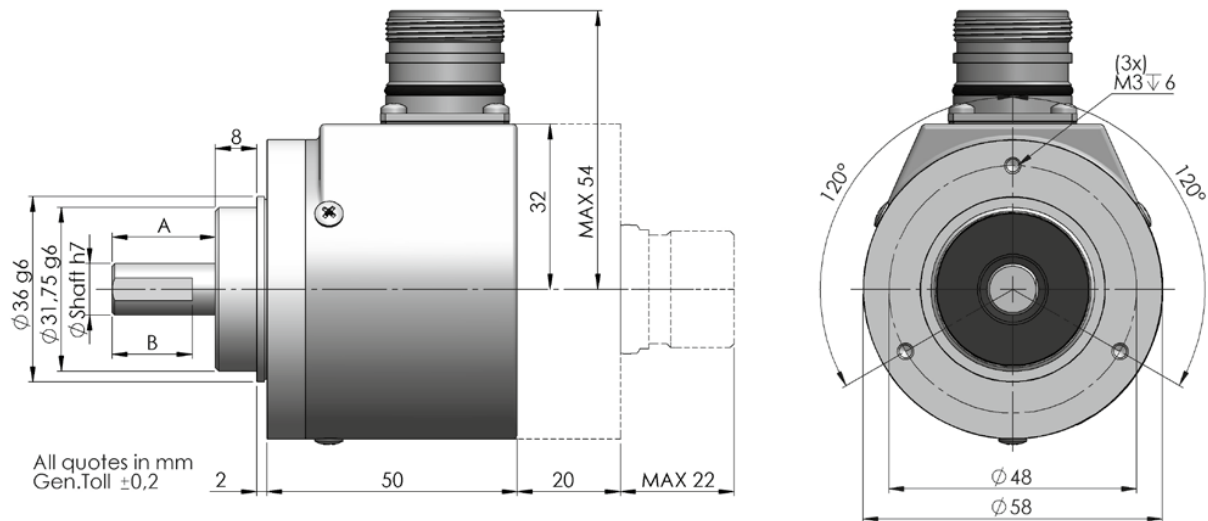
CW

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

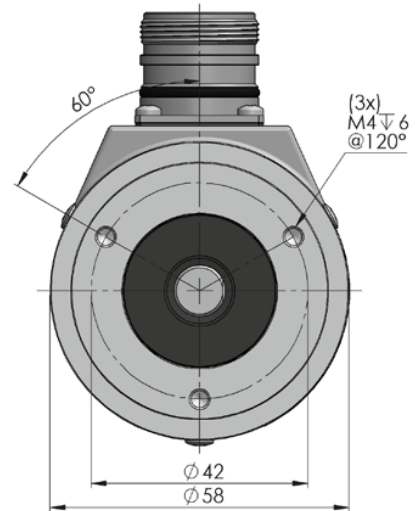
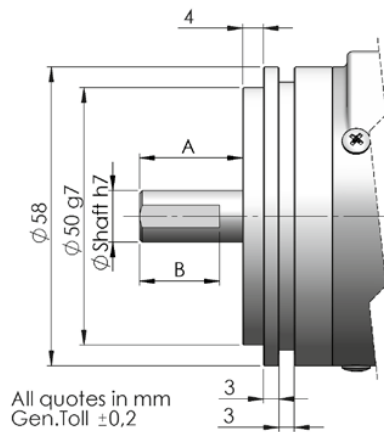
## Welle / Shaft

$\varnothing$	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

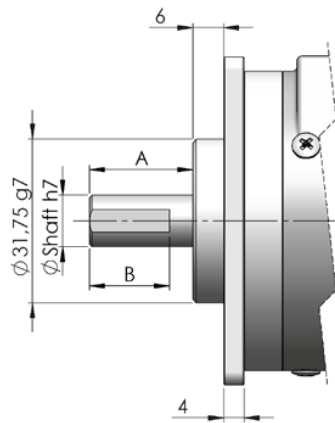
### Flansch 1 / Flange 1



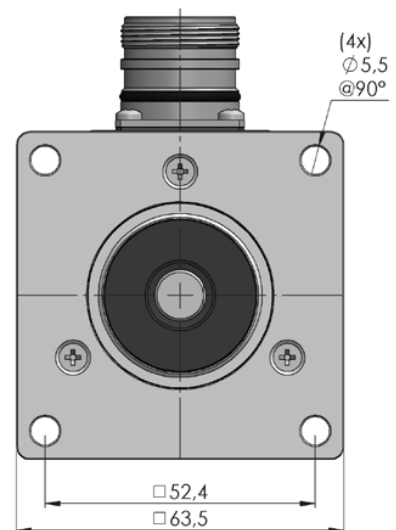
## Flansch 3 / Flange 3



## Flansch 6 / Flange 6



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



## Bestellbezeichnung / Ordering Code

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

## 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.