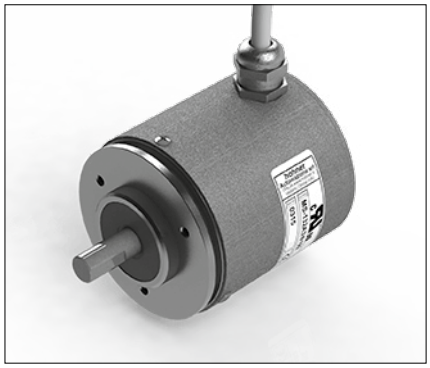
hohner
Elektrotechnik Werne

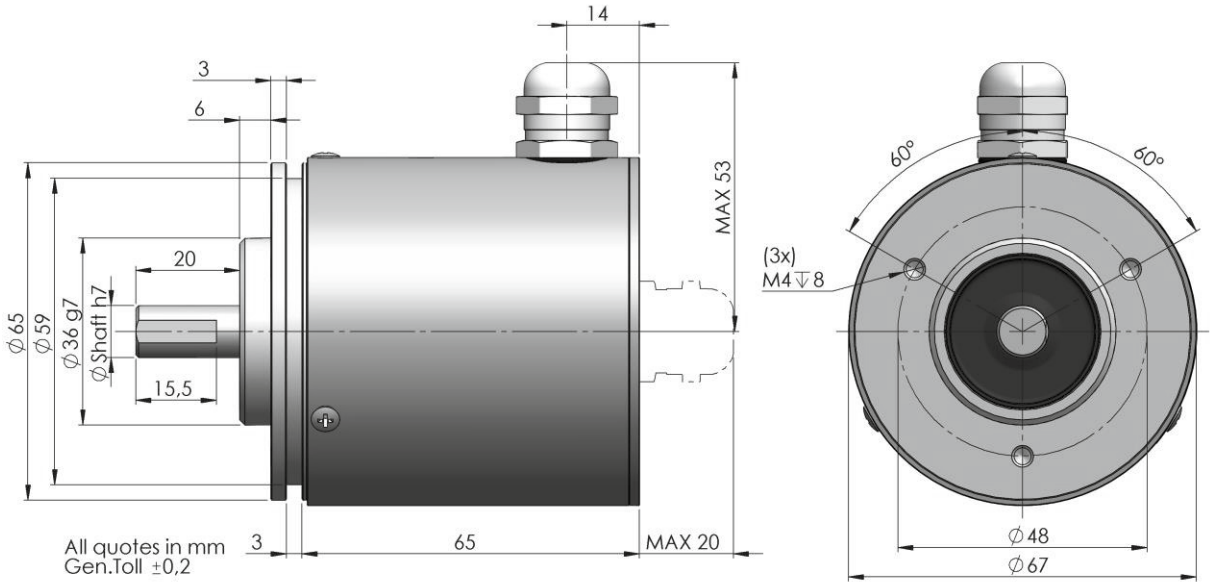
Serie MS
Series MS

Absoluter Drehgeber
mit Parallel- oder Analog Schnittstelle (ø65mm)
Absolute encoder
parallel or analogue (ø65mm)

Mechanische Daten / *Mechanics Data*

Haube / *Cover*:	Aluminium / *aluminium*
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*:	100 gcm²
Wellenbelastung /*Shaft Loading*:	Axial 100N – Radial 100N





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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

Bestellbezeichnung / *Ordering Code*

MS	*	3	*	*	*	/	**
	Welle ***Shaft***	**Flansch** ***Flange***	**Ausgangsschaltungen** ***Output***	**Optionen** ***Options***	**Anschlüsse** ***Connections***		**Auflösung** ***Resolution***
			Digitalausgang / *Digital output* max 13bit (8192)				
	3 = Ø 6 mm 6 = Ø 8 mm 1 = Ø 10 mm	3	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: Auflösung max. 1024 *Resolution max 1024*	A = None B = Open Coll. E = GRAY Excess S = Strobe	**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		max 13bit 360 = 360 1024 = 1024 4096 = 4096 ... 8192 = 8192
			Digitalausgang / *Digital output* max 17bit (131072)				
			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	**SUB-D 25p** N = 9413 Axi R = 9413 Rad		max 17bit 12C = 4096 13C = 8192 ... 17C = 131072
			Analogausgang / *Analogue output* max 14bit				
			C = 4-20mA M = 4-20mA / 0-10V D = 0-10V Versorgungsspannung / *Power Supply* 24V	A = None Z = Preset	**M23 12p/16p** 2 = 9416/9426 Axi 5 = 9416/9426 Rad		R1 = 1 Ramp/*turn* R2 = 2 Ramp/*turn* R4 = 4 Ramp/*turn*

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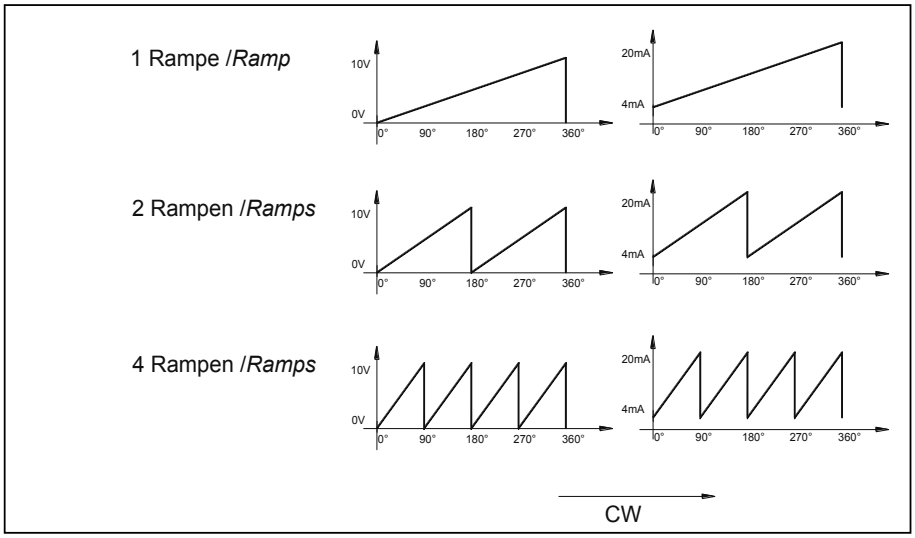
Analogausgang / *Analogue Output*

Versorgungsspannung / *Power Supply* 24V

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



Anschlüsse Digitalausgang / *Connections Digital Output*

	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 <–>**
Stecker / *Connector* 9416 12 p	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11					P12
Stecker / *Connector* 9426 16 p	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
Stecker / *Connector* 9413 25 p	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
Kabel / *Cable*	Schwarz / *Black*	Blau / *Blue*	Braun / *Brown*	Beige / *Beige*	Grün / *Green*	Gelb / *Yellow*	Rosa / *Pink*	Violett / *Violet*	Orange / *Orange*	Transparent / *Transparency*	Weiss-Rot / *White-Red*	Weiss-Blau / White-Blue	Grün-Weiss / Green White	Violett-Weiss / Violet-White	Gelb-Grün / Yellow-Green	Gelb-Weiss / Yellow-White

M = Optionale Ausgänge
optional outputs

DIR <-> = Drehrichtung: Im Uhrzeigersinn oder gegen den Uhrzeigersinn. Im Uhrzeigersinn ist Standard. Gegen den Uhrzeigersin DIR <-> also **0 Volt**.
*Signal direction: clockwise or anticlockwise. Clockwise is standard. Anticlockwise connect DIR <-> to **0 Volt***

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