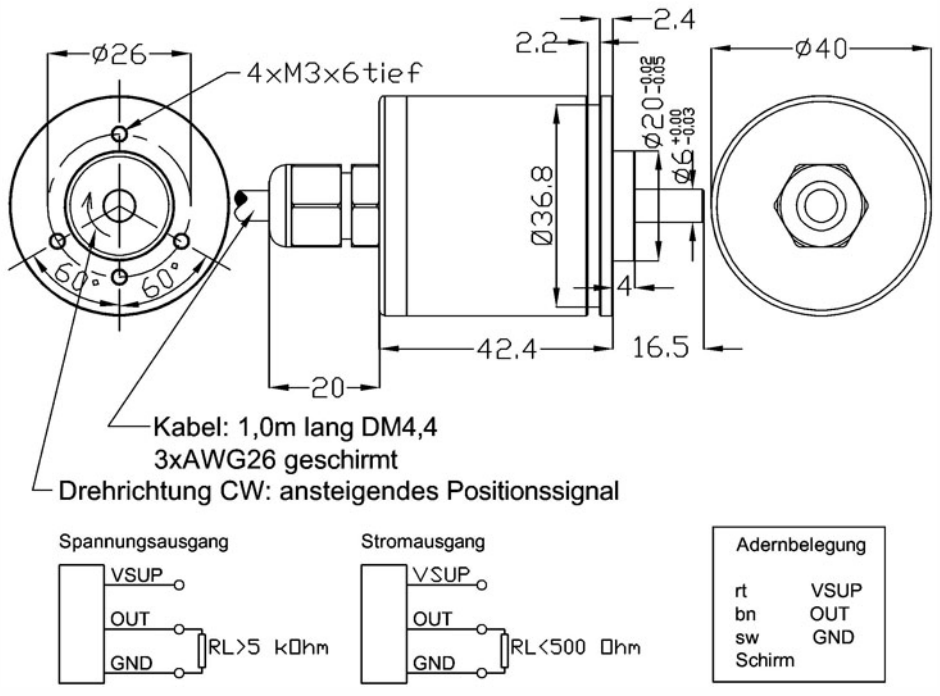
Serie MAB40A / Hall Effect Absolute Encoder

- Angle range 360° (special angles on request)
- 12 Bit resolution
- Protection class IP67
- Analog output: 0-5V, 0-10V, 4-20mA
- Supply voltage: 5V, 24V
- Housing ∅ 40 mm with servoflange
- Precision ball bearings

If cost effectiveness, rugged operation and versatility are required, the MAB40A is the ideal solution. 2 precision ball bearings and the magnetic measuring principle are warrants for a high life expectancy.

Drawing



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Serie MAB40A / Hall Effect Absolute Encoder

Electrical Data		Voltage Output		Current Output
Electrical Angle	[°]	360 (other angles on request)		
Indepentent Linearity Tolerance	[%]	±0,3		
Resolution	[Steps]	4096 (12 Bit)		
Update rate	[ms]	Standard: 1,0 High Speed: 0,2		
Output Signal		0,5V ratiometric	0-10V	4-20mA
Supply Voltage	[VDC]	5 ±10%	15-30	8-30
Supply Current (no load)	[mA]	<20		
Signal load	[Ohm]	>5k		<500

Mechanical Data		
Maximum Rotational Speed	[rpm]	1000
Operational Torque	[Ncm]	typical 1
Operating Temperature	[°C]	-25 ... +85
Storage Temperature	[°C]	-40 ... +85
Bearing		2 precision ball bearings
Protection Class (shaft/housing)		IP67

Other Data	
Material Housing	Aluminium
Material Shaft	stainless steel
Mounting parts (pls. order separately, Part-No. 106399)	3 clamps SFN1 (M3 x 0,5)
Weigth	approx. 90 g

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Order Description

Series MAB40A with single electronics	**MAB40A**						
Resolution / Update rate							
12 bit / Standard speed (*)		12 (*)					
12 bit / High speed		**12HS**					
Supply voltage / Output signal							
5 V / 0...5 V			0505 (*)				
24 V (9..30 V) / 0...5 V			2405 (*)				
24 V (15..30 V) / 0...10 V			**2410**				
24 V (9..30 V) / 4...20 mA			**2442**				
24 V (9..30 V) / 0...20 mA			2420 (*)				
Counterclockwise rising signal				CCW360 (*)			
Other electrical effective angle				C(C)Wxxx (*)			
Clockwise rising signal; 360°, zero point alignment					**N**		
Other shaft length [mm]						Axx (*)	
Cable output							
Axial - 1 m							-
Axial [m]							CVxx(*)
Series MAB40A with redundant output	**MAB40A**	**X**					
Resolution / Update Rate							
12 bit / Standard Speed (*)		12 (*)					
12 bit / High Speed		**12HS**					
Supply voltage / Output signal							
5 V / 0...5 V			0505 (*)				
24 V (9..30 V) / 0...5 V			2405 (*)				
24 V (15..30 V) / 0...10 V			**2410**				
Clockwise rising signal; 360°, zero point alignment				**CW360/CW360 N**			
Counterclockwise rising signal at both channels				CCW360/CCW360 (*)			
Other electrical effective angle				C(C)Wxxx/C(C)Wxxx (*)			
Other shaft length [mm]					Axx (*)		
Cable output							
Axial - 1 m						-	
Axial [m]						CVxx(*)	

"bold print = standard option"
short-term stock types can be found on: http://www.megatron.de/en/stocklists/angle-sensors/lagerliste.html
(*) = on request available for projects

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