

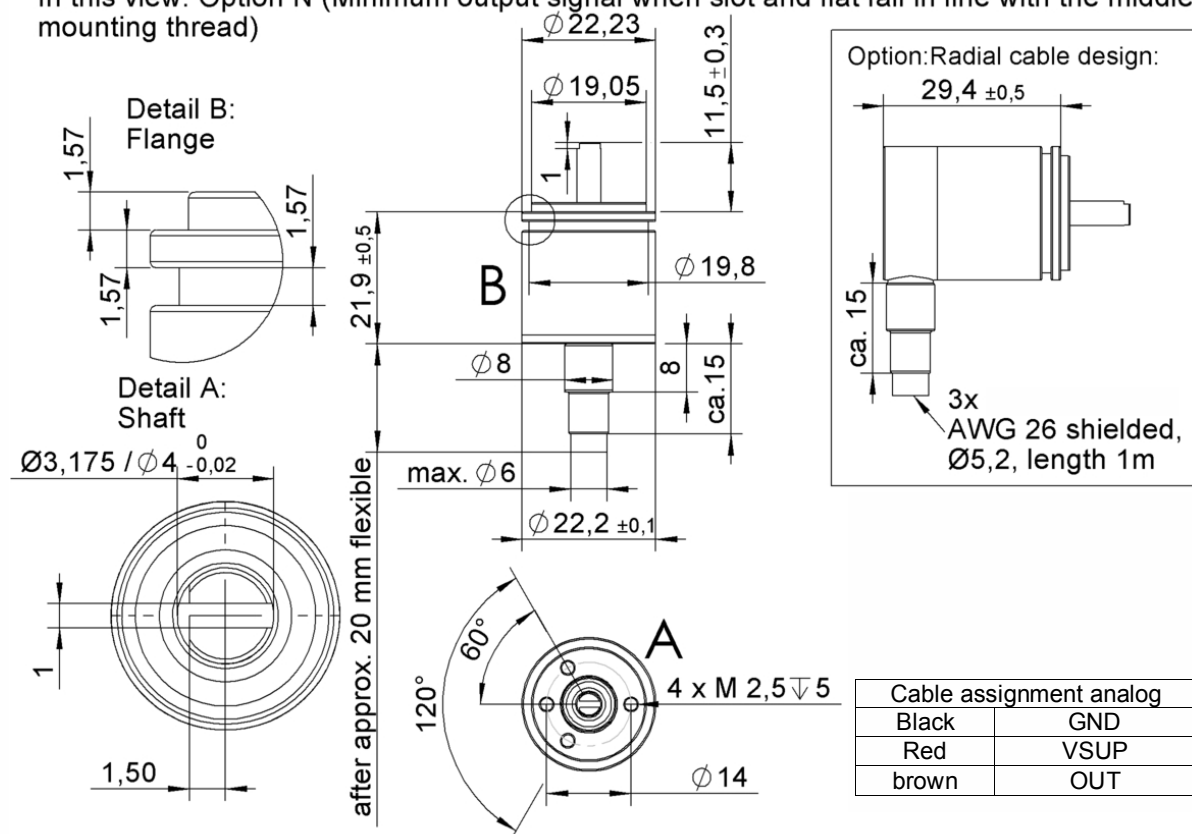
Serie MAB22A / Hall Effect Absolute Encoder

- Angle range 360° (signal characteristic configurable)
- 12 Bit resolution
- Analog output: 0-10 V, 0-5 V ratiometric
4-20 mA, 0-20 mA
- Supply voltage: 5 V, 24 V, 9-30 V
- Housing Ø 22 mm
- High lifetime by precision ball bearings



Drawing

In this view: Option N (Minimum output signal when slot and flat fall in line with the middle mounting thread)



Series MAB22A / Hall Effect Absolute Encoder

Electrical Data	Voltage Output	Current Output
Electrical angle	20°...360° (Standard 360°)	
Independent Linearity Tolerance	± 0,3%	
Resolution	12 Bit (4096 Steps)	
Update rate	0,6 ms / Option High Speed 0,2 ms	
Output Signal	0-10 V, 0-5 V ratiometric	4-20 mA, 0-20 mA
Supply Voltage	5 VDC ± 10%, 15-30 VDC	9-30 VDC
Supply Current (without load)	< 15 mA / < 20 mA (HS)	
Signal Load	≥ 5k Ohm	≤ 500 Ohm

Mechanical Data

Max. mechanical rotation speed	6.000 rpm
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Other Data

Protection class	IP65
Operating Temperature	-30 ... +80° C
Storage Temperature	-40 ... +80° C
Bearing	2 precision ball bearings
Material Housing	Chromed Aluminium
Material Shaft	Stainless steel
Weight	≈ 25 g
Mounting Parts	3 clamps SFN2, incl. screws M3x0,5 Please order separately

Series MAB22A / Hall Effect Absolute Encoder

Order Description and Options

Series MAB22A with single electronics	MAB22A					
<u>Shaft diameter</u>						
Ø 4 mm	4					
Ø 3,175 mm (1/8")	3,175					
<u>Update Rate / Supply voltage / Output signal</u>						
High speed / 5 V / 0...5 V			12HS 0505 (*)			
High speed / 24 V (9...30 V) / 0...5 V			12HS 2405 (*)			
High speed / 24 V (15...30 V) / 0...10 V			12HS 2410			
Standard speed / 24 V (9...30 V) / 4...20 mA			12 2442			
Standard speed / 24 V (9...30 V) / 0...20 mA			12 2420 (*)			
Standard Clockwise 360°			-			
Counterclockwise rising signal			CCW360 (*)			
Other electrical effective angle			C(C)Wxxx (*)			
Clockwise rising signal; 360°, zero point alignment				N		
Other shaft length [mm]					Axx (*)	
<u>Cable output</u>						
Axial - 1 m						-
Axial [m]						CVxx(*)
Radial [m]						CVRxx(*)

(*) = on request available for projects

Our speciality are custom solutions for reasonable prices, even for small series

On serial demand we offer: Special angles and shafts, mounting of gear wheels and other mechanical parts, cable and connector assemblies. Please ask us.

Errors and specifications subject to change without notice.

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