

## Series MIB22 / Inkremental Hall Effect Encoder

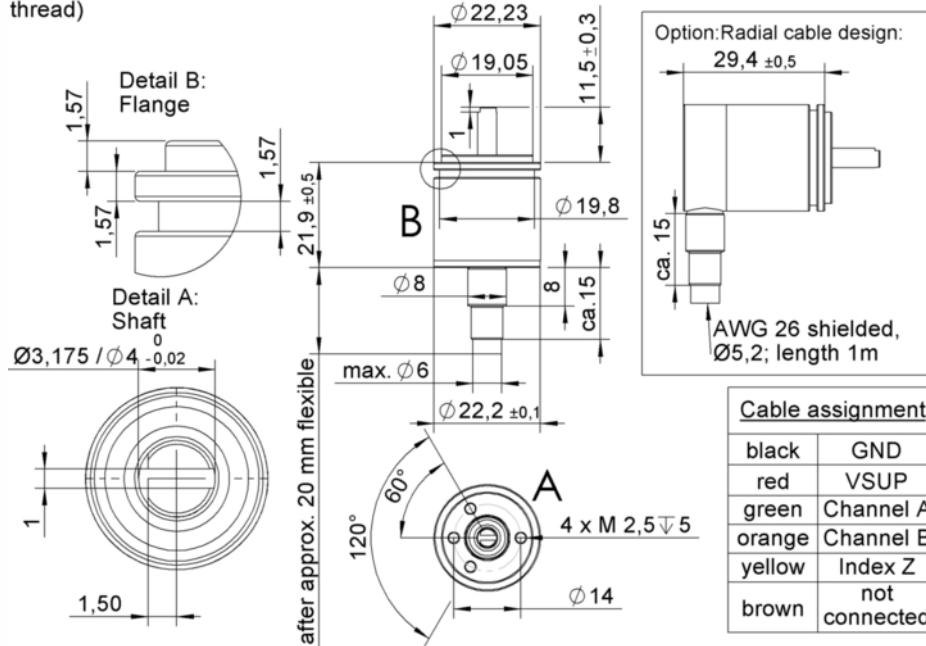
- Contactless Hall-Technology
- Resolution up to 1024 ppr.
- 2 Channels with Index
- 2 Precision Ball Bearings
- Possibility of reading out the absolute angular position of the sensor (option EI3)
- 5 V, 8-30 V Power Supply
- Interfaces: Open Collector, TTL
- Housing  $\varnothing$  22 mm

The MIB22 is a sensor with a good price/performance ratio, if a sturdy housing and precision ball bearings are requested. It offers a huge range of mounting possibilities.

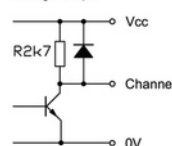


### Drawing

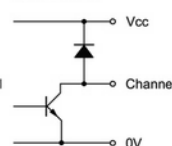
In this view: Option N (Index Z positioned, slot and flat fall in line with the middle mounting thread)



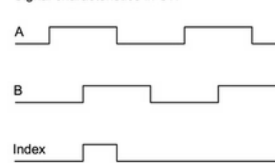
Option NPN:  
Voltage Output



Option OC:  
Open Collector



Signal characteristics in CW



## Series MIB22 / Inkremental Hall Effect Encoder

### Electrical Data

Pulses	1-128, 256, 512, 1024 ppr.
Channels	A, B, Z
Limit frequency	500 kHz
Supply voltage	5 V $\pm$ 10% (Ripple < 100mVpp) / 8-30 V
Supply current (no load)	< 20 mA

### Mechanical Data

Maximum rotational speed	6000 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
Housing material	chromed aluminium
Shaft material	stainless steel
Weight	$\approx$ 90 g

# Series MIB22 / Inkremental Hall Effect Encoder

## Order Description and Options

Series MIB22	MIB22					
<u>Shaft diameter</u>						
Ø 4 mm		<b>4</b>				
Ø 3,175 mm (1/8") (*)		3,175 (*)				
<u>Resolution [Pulses per revolution]</u>						
			<b>1024</b>			
			512 (*)			
			256 (*)			
			2...128 (*)			
<u>Supply voltage / Output signal</u>						
5 V / TTL					05 BZ TTL (*)	
5 V / Open Collector					05 BZ OC (*)	
24 V (9..30 V) / Open Collector					24 BZ OC	
<u>Zero point alignment of the index pulse</u>						
						N (*)
<u>Other shaft length [mm]</u>						
						Axx (*)
<u>Cable output</u>						
Axial - 1 m						-
Axial [m]						CVxx(*)
Radial [m]						CVRxx(*)

"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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