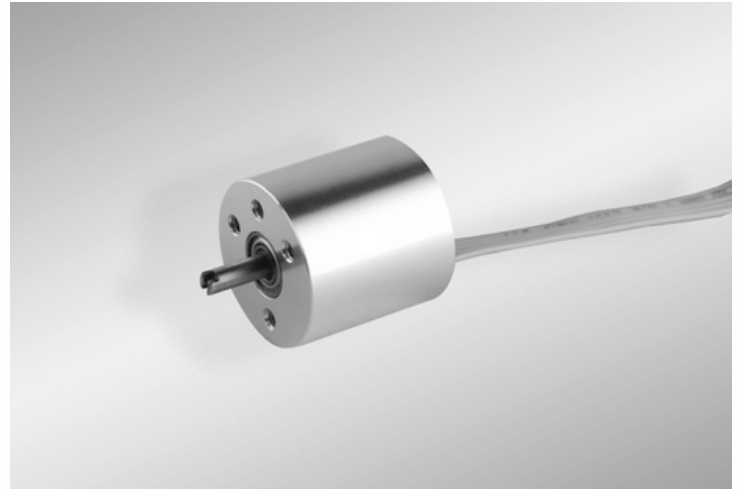


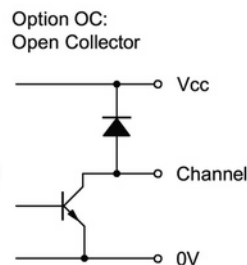
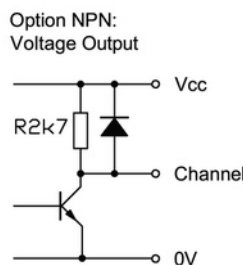
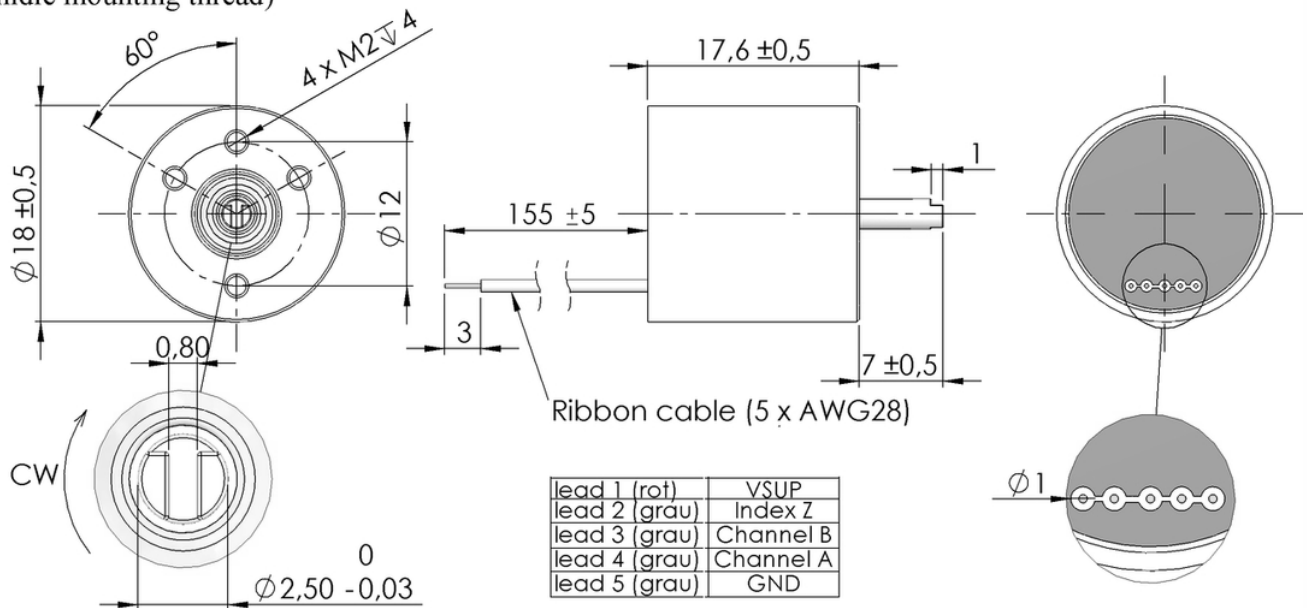
Series MIB18 / Incremental Hall Effect Encoder

- Housing Diameter 18 mm
- Protection Class IP65
- Resolution up to 1024 ppr.
- 2 Channels and Index
- 2 Precision Ball Bearings
- Operation Voltage 5 V

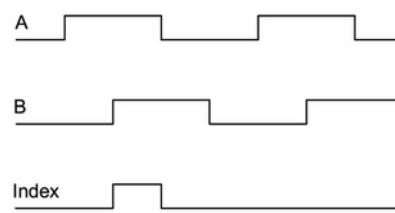


Drawing

In this view: Index Z positioned acc. option N (slot on the shaft and flat fall in line with the middle mounting thread)



Signal characteristics in CW



Series MIB18 / Incremental Hall Effect Encoder

Electrical Data

Pulses	1-128, 256, 512, 1024 ppr
Output Channels	A, B, Z
Limit Frequency	10 kHz
Supply Voltage	5 V \pm 10% (Ripple < 100mVpp)
Supply Current (no load)	< 20 mA

Mechanical Data

Maximum rotational speed	6000 rpm
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Other Data

Protection Class	IP65
Operating Temperature	-40 .. + 85 °C (Erweiterter Temperaturbereich auf Anfrage)
Storage Temperature	-40 .. + 105 °C
Bearing	2 Precision Ball Bearings
Housing Material	Aluminium
Shaft Material	Stainless Steel
Weight	≈ 20 g

Series MIB18 / Incremental Hall Effect Encoder

Order Description and Options

Description	Series	Options						
Infiniturn with incremental output and 18mm housing	MIB18							
Resolution 1024 ppr. 1-128 ppr. (free choice) 256 ppr. 512 ppr.		1024 1...128 256 512						
Supply voltage 5V ± 10%			5					
Output channel A, B and Index Z				BZ				
Output signal TTL-level Open Collector					TTL OC			
Zero point alignment: Index Z is positioned on mechanical zero point (look at drawing)						N		
Shaft length [mm] related on mounting surface (7mm standard, no description necessary)							Axx	
Cable length [m] (0,155 m standard, no description necessary)								CVxx
Example standard version:	MIB18	1024	5	BZ	TTL			
Infiniturn with incremental output and 18 mm housing, 1024 ppr. resolution, 5V ± 10% supply voltage, output channel A,B and Index Z, output signal TTL-level								
Example with options:	MIB18	30	5	BZ	TTL	N	A30	CV0,5
Infiniturn with incremental output and 18 mm housing, 30 ppr. resolution, 5V ± 10% supply voltage, output channel A,B and Index Z, output signal TTL-level, Index Z positioned on mechanical zero point, shaft length 30mm, cable length 0,5m								

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

Examples: Mounting of gear wheels and other mechanical parts, assembling of cables, connectors and more. Please ask us. Please also see for this the following table with the electrical options.

Electrical Options (EI)

<p>Individual resolution (standard 1024 ppr.) As a unique feature any number of pulses from 1-128 pulses per revolution can be programmed in a 3 channel configuration. Above 128 ppr. the following resolutions are possible as standard option: 256, 512 ppr.</p>	EI1
<p>Push - Pull Function (for housing bigger than 25 mm) In an open collectro mode the driver current is limited by pull up resistor. In push - pull mode the driver current goes up to 300 mA. Longer distances and faster switching is possible.</p>	EI2
<p>Output of the absolute position After switching on of the EcoTurn supply voltage the absolute position is measured and the encoder generates the number of pulses accordingly. Afterwards the behaviour of the encoder is like a standard incremental encoder. That means the absolute position is transmitted instantly after power on and there is no need to drive to the home positon. But please take care that the external counter is switched on before the encoder.</p>	EI3
<p>Z-Point Positioning It is possible to position the index Z in line with the mechanical zero point (standard option N). Also any offset to this position is possible.</p>	EI5
<p>Inverted Signals The channels A and B can be inverted or not inverted independent of each other. The basic type is not inverted.</p>	EI6

The specifications and information in this datasheet cannot consider all special demands that are caused by the application. Because of this, they are no general description of the properties of the product. Please also consider our detailed specifications. (Available on request)

4. Sept. 2012. All specifications are subject to change without notice.