Baumer
Passion for Sensors

Encoders without bearings - incremental

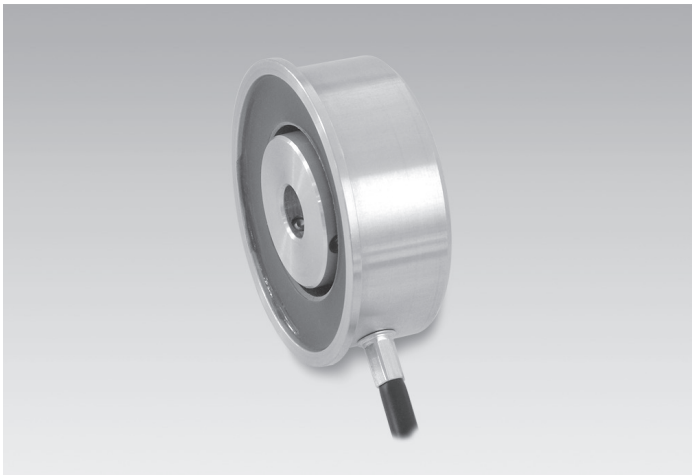
ITD 27 A 4 Y27

Blind hollow shaft ø10 to ø16 mm

1...32 pulses per revolution

Overview

- Encoder with blind hollow shaft ø10...16 mm
- Pulses per revolution up to 33
- Magnetic sensing method
- Mounting on shaft by set screws
- HTL output signals
- Cable output radial
- Sealed electronics



Technical data

Technical data - electrical ratings	
Voltage supply	8...26 VDC
Reverse polarity protection	Yes
Consumption w/o load	≤20 mA
Pulses per revolution	1 … 32
Output signals	A 90° B
Output stages	Push-pull short-circuit proof
Sensing method	Magnetic
Technical data - mechanical design	
Size (flange)	ø58 mm
Shaft type	ø10...16 mm (blind hollow shaft)
Motor shaft tolerance	±0,25 mm axial ±0,1 mm radial

Technical data - mechanical design	
Protection DIN EN 60529	IP 67 (relating to sealed electronics)
Operating speed	≤12000 rpm
Material	Housing: aluminium Shaft: aluminium
Operating temperature	-30...+85 °C
Relative humidity	90 %
Resistance	DIN EN 60068-2-6 Vibration 10 g, 55-2000 Hz DIN EN 60068-2-27 Shock 100 g, 11 ms
Weight approx.	220 g
Connection	Cable 1 m

Optional

- Cable with connector

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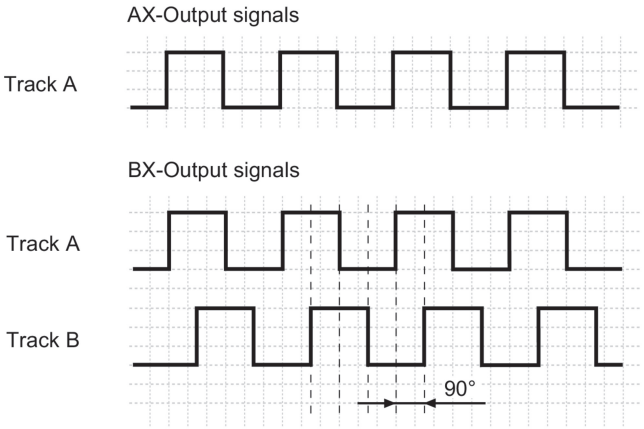
1...32 pulses per revolution

Terminal assignment

Core colour	Assignment
green	Track A
grey	Track B
brown	UB
white	GND
transparent	Shield/Housing

Output signals

Clockwise rotation when looking at the mounting side.



Trigger level

Outputs	**Push-pull** short-circuit proof
Output level High	≥UB -3 V
Output level Low	≤1.5 V
Load	≤20 mA

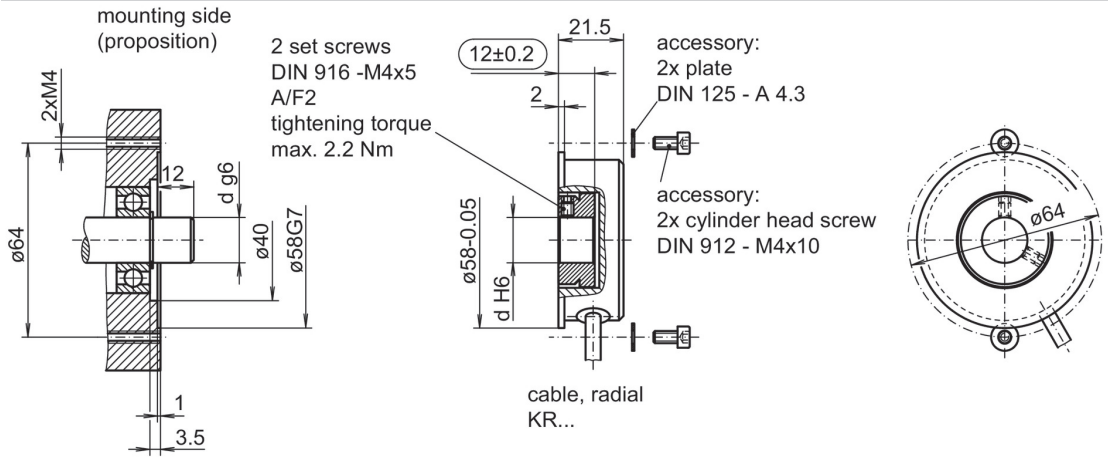
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Dimensions



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Ordering reference

	ITD 27 A 4 Y27	#####	H	####	KR1	S	##	IP67
Product								
	ITD 27 A 4 Y27							
Pulse number								
1		1						
4		4						
8		8						
16		16						
20		20						
32		32						
Voltage supply / signals								
8...26 VDC / HTL level, push-pull			H					
Output signals								
A				AX				
A, B				BX				
Connection								
Cable 1 m, radial					KR1			
Operating temperature								
-30...+85 °C						S		
Blind hollow shaft								
ø10 mm							10	
ø11 mm							11	
ø12 mm							12	
ø13 mm							13	
ø14 mm							14	
ø15 mm							15	
ø16 mm							16	
Protection								
IP 67								IP67

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