

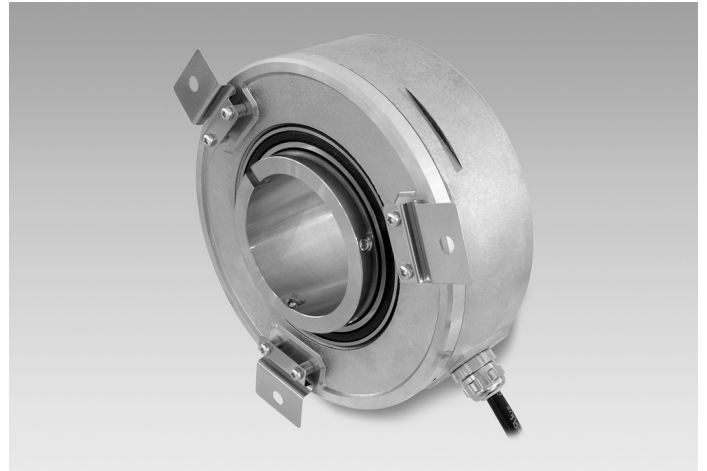
ITD 70 A 4 Y 2

Through hollow shaft $\varnothing 38$ to $\varnothing 65$ mm

1000...2500 pulses per revolution

Overview

- Encoder with through hollow shaft max. $\varnothing 65$ mm
- Max. 2500 pulses per revolution
- Optical sensing method
- Mounting by torque support
- Mounting hole circle $\varnothing 164$ mm
- TTL or HTL output signals
- Cable output radial



Technical data

Technical data - electrical ratings

Voltage supply	5 VDC ± 5 % 8...30 VDC
Reverse polarity protection	Yes
Consumption w/o load	≤ 100 mA
Pulses per revolution	1000 ... 2500
Reference signal	Zero pulse, width 90°
Sensing method	Optical
Output frequency	≤ 120 kHz
Output signals	A, B, N + inverted
Output stages	TTL linedriver (short-circuit proof) HTL push-pull (short-circuit proof)
Interference immunity	EN 61000-6-2
Emitted interference	EN 61000-6-3

Technical data - mechanical design

Size (flange)	$\varnothing 150$ mm
Shaft type	$\varnothing 38$... $\varnothing 65$ mm (through hollow shaft)
Mounting kit	051
Protection EN 60529	IP 54
Operating speed	≤ 4000 rpm
Material	Aluminium, bare Shaft: stainless steel
Operating temperature	-20...+70 °C
Relative humidity	90 % non-condensing
Resistance	EN 60068-2-6 Vibration 10 g, 55-2000 Hz EN 60068-2-27 Shock 100 g, 11 ms
Connection	Cable 1 m
Weight approx.	2500 g

Optional

- Cable with connector

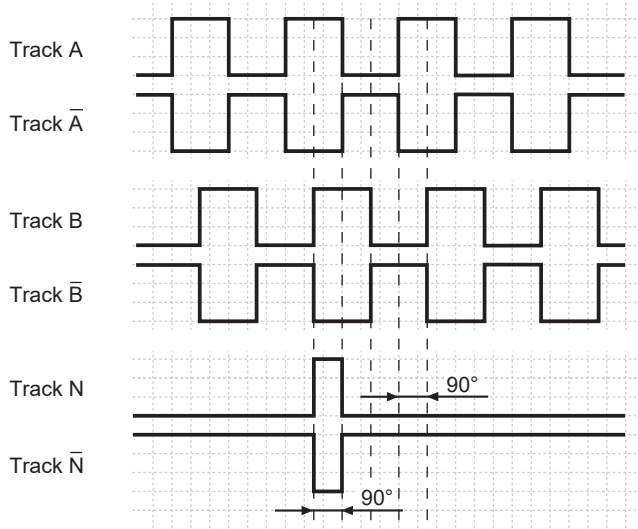
Terminal assignment

Core colour	Assignment
green	Track A
brown	Track A inv.
grey	Track B
black	Track B inv.
pink	Track N
white	Track N inv.
red	UB
blue	GND
yellow	UB-Sense
violet	GND-Sense
transparent	Shield/Housing

Output signals

Clockwise rotation when looking at the mounting side.

NI-Output signals



Trigger level

Outputs	Linedriver
Output level High	≥ 2.4 V
Output level Low	≤ 0.5 V
Load	≤ 70 mA

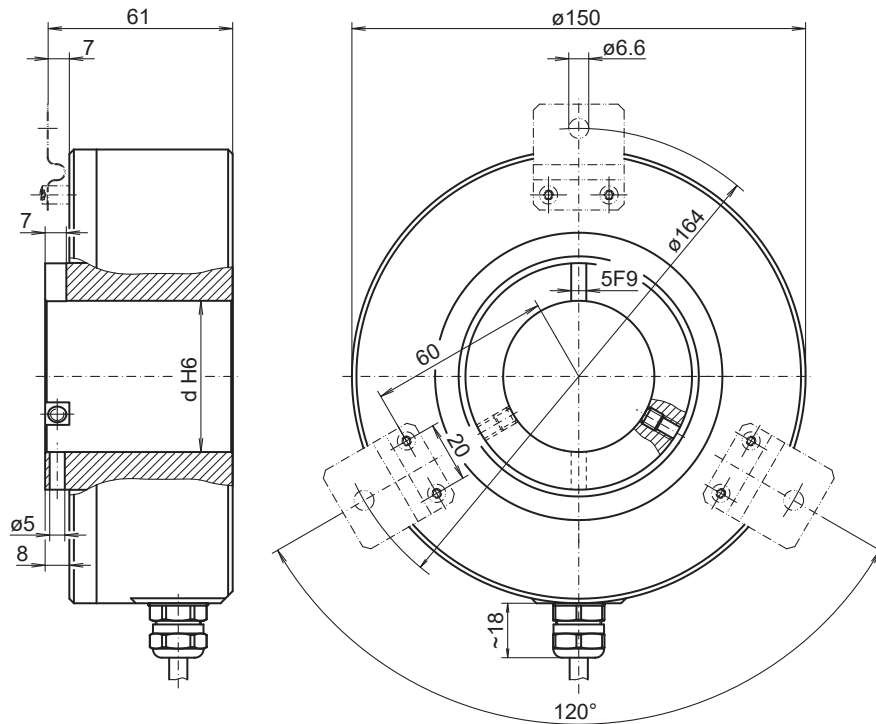
Outputs	Push-pull short-circuit proof
Output level High	$\geq UB - 3$ V
Output level Low	≤ 1.5 V
Load	≤ 70 mA

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Dimensions



026-40 Y 2

ITD 70 A 4 Y 2

Through hollow shaft ø38 to ø65 mm

1000...2500 pulses per revolution

Ordering reference

		ITD 70 A 4 Y 2	#####	#	NI	KR1	S	##	IP54	051
Product		ITD 70 A 4 Y 2								
Pulse number										
	1000		1000							
	1024		1024							
	2048		2048							
	2500		2500							
Voltage supply / signals										
	5 VDC / TTL level, linedriver			T						
	8...30 VDC / HTL level, push-pull			H						
	8...30 VDC / TTL level, linedriver			R						
Output signals										
	A, A inv, B, B inv, N, N inv				NI					
Connection										
	Cable 1 m, radial					KR1				
Operating temperature										
	-20...+70 °C						S			
Through hollow shaft										
	ø40 mm							40		
	ø42 mm							42		
	ø45 mm							45		
	ø50 mm							50		
	ø55 mm							55		
	ø60 mm							60		
	ø65 mm							65		
Protection										
	IP 54								IP54	
Mounting kit										
	Mounting kit 051									051

Other diameters on request.