

ITD 40 A 4 Y79

Through hollow shaft $\varnothing 20$ to $\varnothing 27$ mm
200...2048 pulses per revolution

Overview

- Encoder with through hollow shaft $\varnothing 20$... $\varnothing 27$ mm
- Max. 2048 pulses per revolution
- Optical sensing method
- Mounting by torque support
- 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	200 ... 2048
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)	$\varnothing 80$ mm
Shaft type	$\varnothing 20$... $\varnothing 27$ mm (through hollow shaft)

Technical data - mechanical design

Mounting kit	050
Protection EN 60529	IP 65
Operating speed	≤ 5000 rpm ≤ 3000 rpm IP 65 ($> 70^\circ\text{C}$)
Starting torque	≤ 0.025 Nm ($+20^\circ\text{C}$)
Material	Housing: aluminium, black, powder-coated Shaft: stainless steel
Operating temperature	-20 ... $+70^\circ\text{C}$ -20 ... $+100^\circ\text{C}$
Relative humidity	90 % non-condensing
Resistance	EN 60068-2-6 Vibration 10 g, 55-2000 Hz EN 60068-2-27 Shock 100 g, 6 ms
Connection	Cable 1 m
Weight approx.	600 g

Optional

- Cable with connector
- Extended operating temperature range

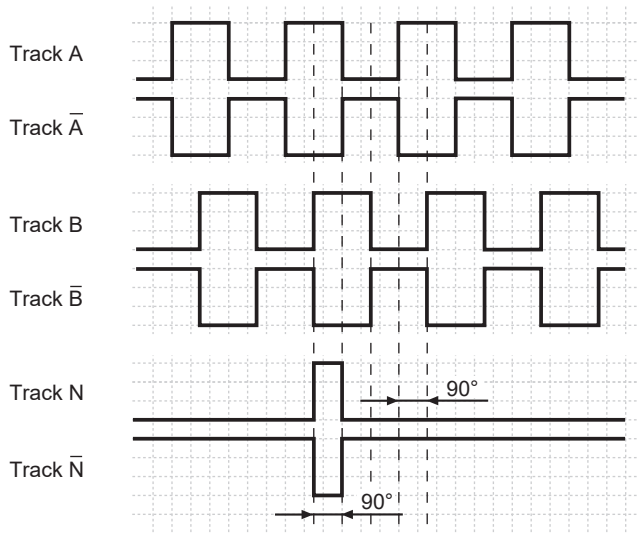
Terminal assignment

Core colour	Assignment
brown	Track A
green	Track A inv.
grey	Track B
pink	Track B inv.
red	Track N
black	Track N inv.
brown 0,5 mm ²	UB
white 0,5 mm ²	GND
blue	UB-Sense
white	GND-Sense
transparent	Shield/Housing

Output signals

Clockwise rotation when looking at the mounting side.

NI-Output signals



Trigger level

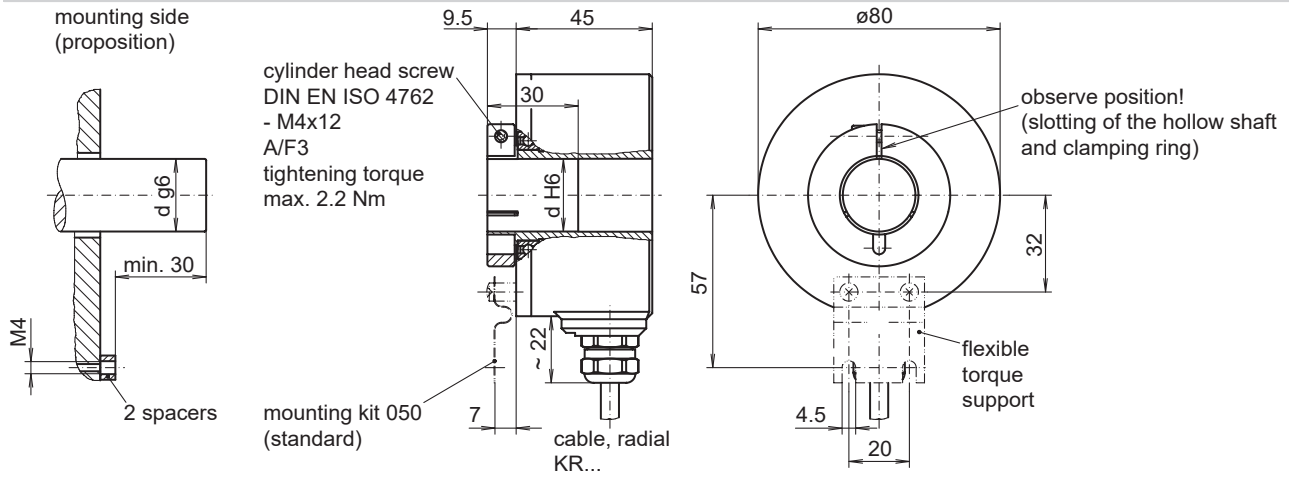
Outputs	Linedriver
Output level High	≥ 2.4 V
Output level Low	≤ 0.5 V
Load	≤ 70 mA

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



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200...2048 pulses per revolution

Ordering reference

	ITD 40 A 4 Y79	#####	#	NI	KR1	#	25	####	050
Product	ITD 40 A 4 Y79								
	ITD 40 A 4 Y79								
Pulse number									
200		200							
360		360							
500		500							
512		512							
720		720							
1000		1000							
1024		1024							
2048		2048							
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		
-20...+100 °C							E		
Through hollow shaft									
$\varnothing 25$ mm							25		
Protection									
IP 54								IP54	
IP 65								IP65	
Mounting kit									
Mounting kit 050									050

Other diameters on request.