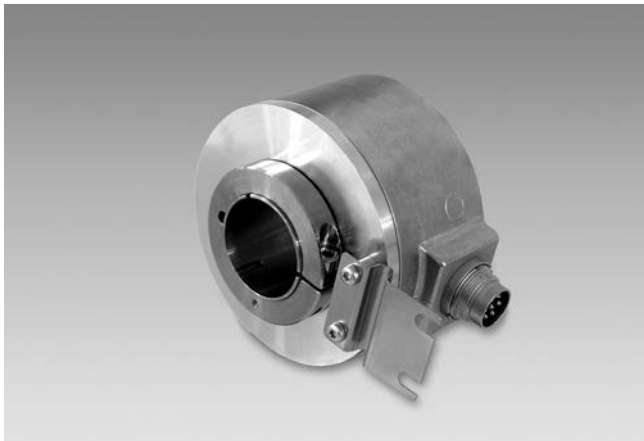


Incremental encoders

Through hollow shaft $\varnothing 28$ to $\varnothing 30$ mm

1024...10000 pulses per revolution

ITD 41 A 4 Y70



ITD 41 A 4 Y70 with through hollow shaft

Features

- Encoder with through hollow shaft $\varnothing 28...30$ mm
- Max. 10000 pulses per revolution
- Optical sensing method
- Mounting by torque support
- TTL or HTL output signals
- Cable output radial

Technical data - electrical ratings

Voltage supply	5 VDC $\pm 5\%$ 8...30 VDC
Reverse polarity protection	Yes
Consumption w/o load	≤ 100 mA
Pulses per revolution	1024...10000
Reference signal	Zero pulse, width 90°
Sensing method	Optical
Output frequency	≤ 300 kHz (TTL) ≤ 160 kHz (HTL)
Output signals	A, B, 0
Output stages	TTL linedriver (short-circuit proof) HTL push-pull (short-circuit proof)
Interference immunity	DIN EN 61000-6-2
Emitted interference	DIN EN 61000-6-3

Technical data - mechanical design

Size (flange)	$\varnothing 80$ mm
Shaft type	$\varnothing 28...30$ mm (through hollow shaft)
Mounting kit	050
Protection DIN EN 60529	IP 54
Operating speed	≤ 7000 rpm
Starting torque	≤ 0.01 Nm ($+20^\circ\text{C}$)
Materials	Housing: aluminium Shaft: stainless steel
Operating temperature	$-20...+70^\circ\text{C}$
Relative humidity	90 % non-condensing
Resistance	DIN EN 60068-2-6 Vibration 10 g, 55-2000 Hz DIN EN 60068-2-27 Shock 30 g, 11 ms
Connection	Connector M16, 7-pin
Weight approx.	580 g

Incremental encoders

Through hollow shaft $\varnothing 28$ to $\varnothing 30$ mm
1024...10000 pulses per revolution

ITD 41 A 4 Y70

Part number

ITD 41 A 4 Y70 **D1SR7** **S** **IP54** **050**

Mounting kit
050 Mounting kit 050

Protection
IP54 IP 54

Through hollow shaft
28 $\varnothing 28$ mm, clamping ring
29 $\varnothing 29$ mm, clamping ring
30 $\varnothing 30$ mm, clamping ring

Operating temperature
S -20...+70 °C

Connection
D1SR7 Flange connector type 1, pin contacts, radial, 7-pin

Output signals
BX A, B
NX A, B, 0

Voltage supply / signals
T 5 VDC / TTL level, linedriver
H 8...30 VDC / HTL level, push-pull
R 8...30 VDC / TTL level, linedriver

Pulse number - see table

Pulse number

1024	2048	3072	4096	10000
2000	2500	3600	5000	

Incremental encoders

Through hollow shaft $\varnothing 28$ to $\varnothing 30$ mm
1024...10000 pulses per revolution

ITD 41 A 4 Y70
