

# Incremental encoders

End shaft  $\varnothing 12$  mm

Resolution 512...2048 pulses

## TIL Y 1



TIL Y 1 with end shaft

### Features

- Encoder with end shaft  $\varnothing 12$  mm
- Resolution max. 2048 ppr
- V-Lock clamping
- Mounting by torque support
- TTL or HTL output signals
- Tangential cable output

### Optional

- Cable with connector

### Technical data - electrical ratings

Voltage supply	5 VDC $\pm 5$ % 8...26 VDC
Reverse polarity protection	Yes
Consumption w/o load	$\leq 85$ mA
Resolution (steps/turn)	100...2048
Reference signal	Zero pulse, width $90^\circ$
Sensing method	Optical
Output frequency	$\leq 120$ kHz
Output signals	A, B, N + inverted
Output circuit	TTL linedriver (short-circuit proof) HTL push-pull (short-circuit proof)

### Technical data - mechanical design

Dimensions (flange)	60 x 72 mm
Shaft	$\varnothing 12$ mm hollow shaft
Motor shaft tolerance	0.25 mm axial 0.1 mm radial
Mounting kit variant	042
Protection DIN EN 60529	IP 65
Operating speed	$\leq 3000$ rpm
Starting torque	$\leq 0.01$ Nm
Materials	Housing: aluminium Shaft: stainless steel
Operating temperature	$-20...+85$ °C
Relative humidity	90 % non-condensing
Resistance	DIN EN 60068-2-6 Vibration 10 g, 55-2000 Hz DIN EN 60068-2-27 Shock 100 g, 11 ms
Connection	Cable 0.6 m
Weight approx.	320 g

# Incremental encoders

End shaft  $\varnothing$ 12 mm

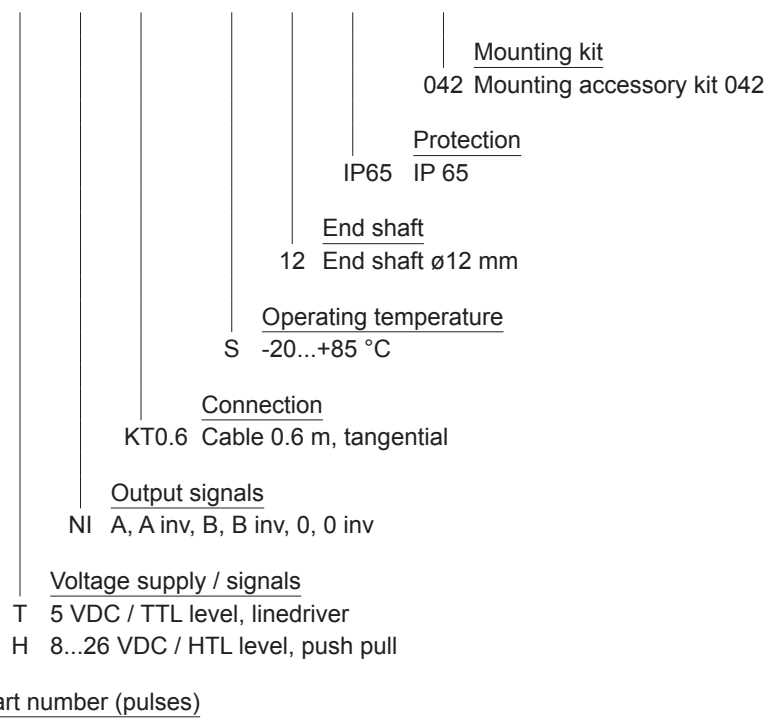
Resolution 512...2048 pulses

TIL Y 1

## Part number

TIL Y 1 

		NI	KT0.6	S	12	IP65	042
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## Part number (pulses)

512 | 1024 | 2048

Other pulse numbers upon request.



# **Incremental encoders**

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**Resolution 512...2048 pulses**

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**TIL Y 1**