

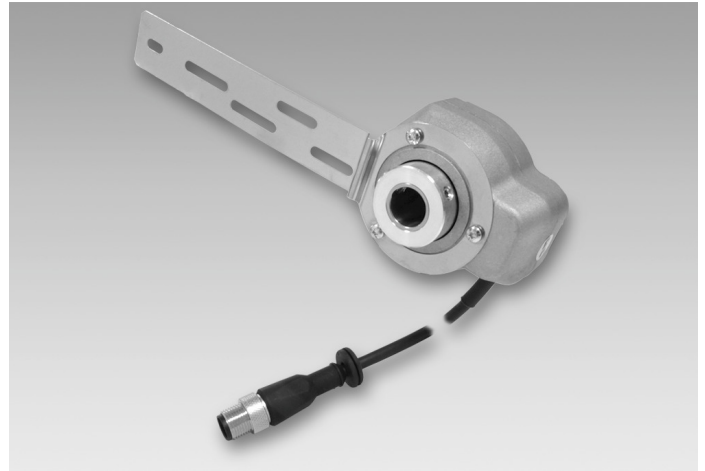
ITD 23 A 4 Y 2

Through hollow shaft $\varnothing 14$ mm

128 pulses per revolution

Overview

- Size $\varnothing 58$ mm
- Precise optical sensing
- Output signal level TTL or HTL
- Through hollow shaft $\varnothing 14$ mm
- Connection tangential
- 128 pulses per revolution
- Operating temperature $-20 \dots +85$ °C



Technical data

Technical data - electrical ratings

Voltage supply	5 VDC ± 5 % 8...26 VDC
Reverse polarity protection	Yes
Consumption w/o load	≤ 40 mA
Pulses per revolution	128
Sensing method	Optical
Output frequency	≤ 30 kHz
Output signals	A 90° B
Output stages	TTL Push-pull short-circuit proof
Interference immunity	EN 61000-6-2
Emitted interference	EN 61000-6-3

Technical data - mechanical design

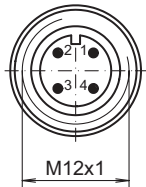
Size (flange)	60 x 72 mm
Shaft type	$\varnothing 14$ mm (through hollow shaft)
Mounting kit	019 021

Technical data - mechanical design

Protection EN 60529	IP 54 IP 65
Operating speed	≤ 5000 rpm ≤ 3000 rpm IP 65 (> 70 °C)
Starting torque	≤ 0.01 Nm ($+20$ °C)
Material	Housing: aluminium Shaft: stainless steel
Operating temperature	$-20 \dots +85$ °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 0.5 m, connector M12, 4-pin, coupling K10SK4
Weight approx.	315 g

Terminal assignment

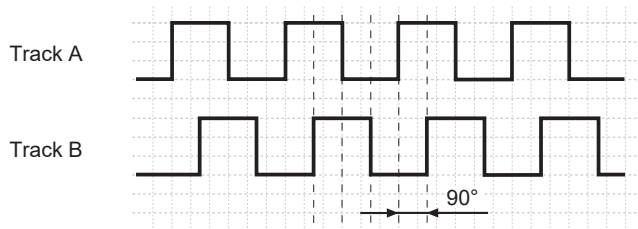
Connector	Assignment
Pin 1	UB
Pin 2	Track B
Pin 3	GND
Pin 4	Track A



Output signals

Clockwise rotation when looking at the mounting side.

BX-Output signals



Trigger level

Outputs	Linedriver
Output level High	≥ 2.4 V
Output level Low	≤ 0.5 V
Load	≤ 40 mA

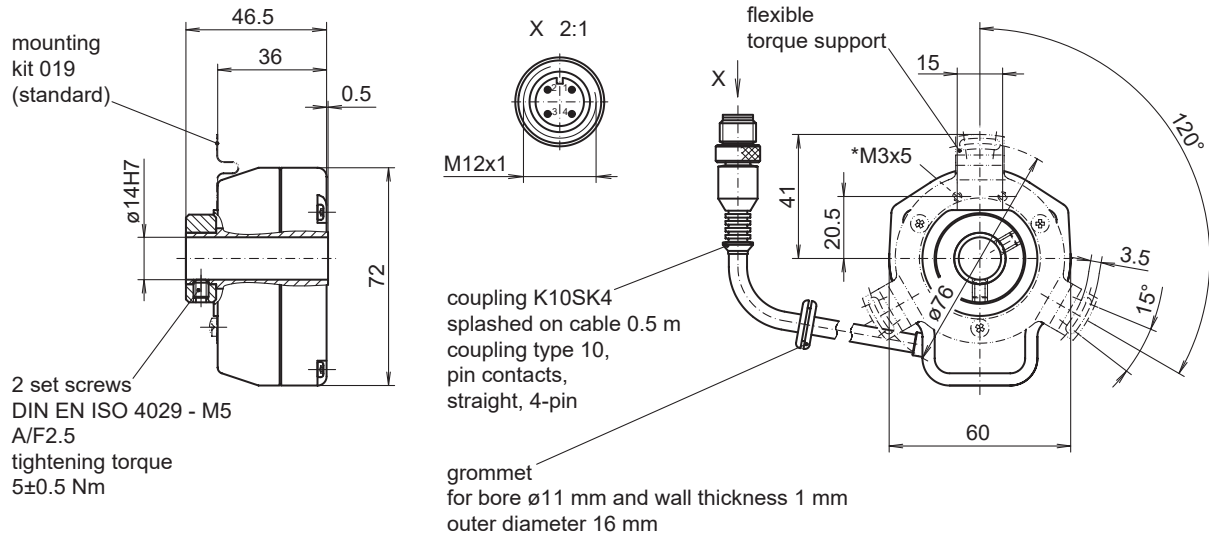
Outputs	Push-pull short-circuit proof
Output level High	$\geq U_B - 3$ V
Output level Low	≤ 1.5 V
Load	≤ 40 mA

ITD 23 A 4 Y 2

Through hollow shaft $\varnothing 14$ mm

128 pulses per revolution

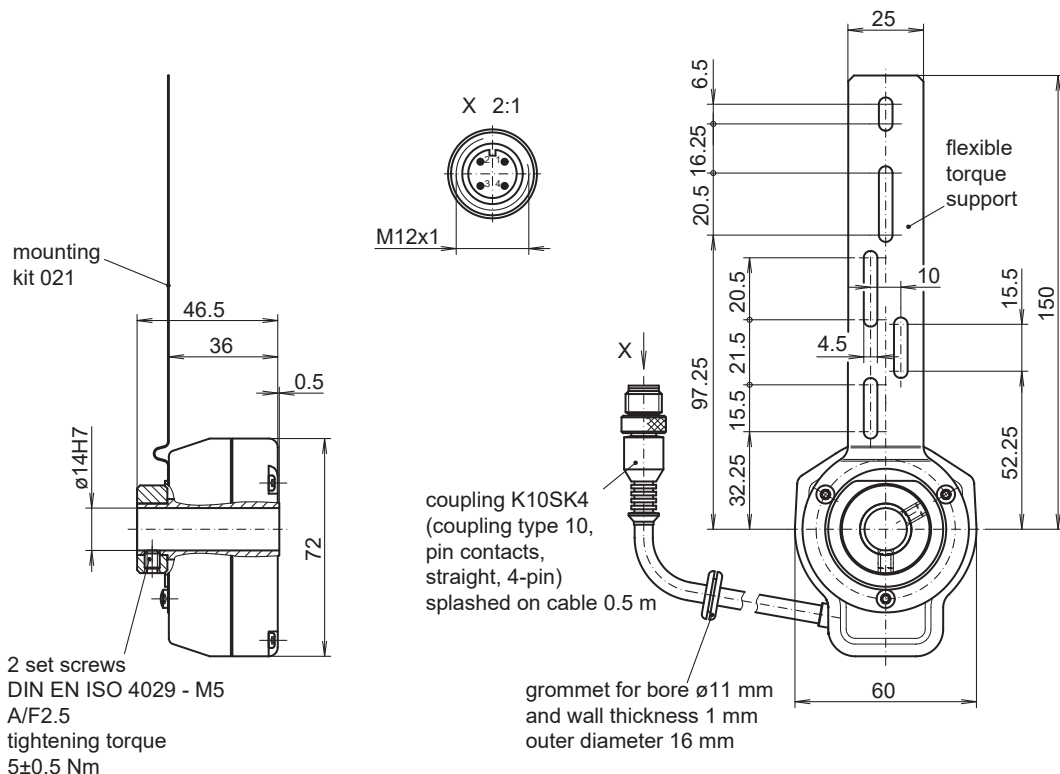
Dimensions



* mounting also for mounting kits of the ITD 2.- series possible.

037- 6 Y 2

ITD 23 A 4 Y 2 with mounting kit 019



ITD 23 A 4 Y 2 with mounting kit 021

SK150033

ITD 23 A 4 Y 2

Through hollow shaft ø14 mm

128 pulses per revolution

Ordering reference

		ITD 23 A 4 Y 2	128	#	BX	K10SK4	S	14	####	##
Product		ITD 23 A 4 Y 2								
Pulse number			128							
Voltage supply / signals										
5 VDC / TTL level, linedriver					T					
8...26 VDC / HTL level, push-pull					H					
Output signals										
A, B					BX					
Connection										
Cable, 4-pin, pin contacts with coupling type 10						K10SK4				
Operating temperature										
-20...+85 °C							S			
Through hollow shaft										
ø14 mm								14		
Protection										
IP 54									IP54	
IP 65									IP65	
Mounting kit										
Mounting kit 019										019
Mounting kit 021										021