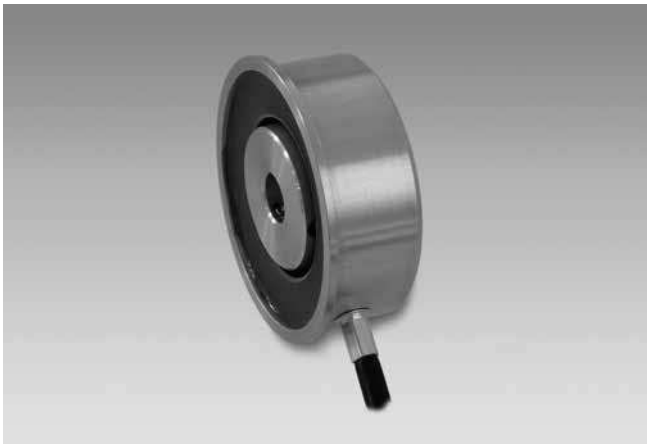
Encoders without bearing

End shaft ø10 to ø16 mm

Resolution 1...32 pulses

ITD 27 A 4 Y27



ITD 27 A 4 Y27 with end shaft

Features

- **Encoder with end shaft ø10-16 mm**
- **Resolution max. 32 ppr**
- **Magnetic sensing**
- **Mounting on shaft by set screws**
- **HTL output signals**
- **Cable output radial**
- **Sealed electronics**

Optional

- **Cable with connector**

Technical data - electrical ratings

Voltage supply	8...26 VDC
Reverse polarity protection	Yes
Consumption w/o load	≤20 mA
Resolution (steps/turn)	1...32
Sensing method	Magnetic
Output signals	A 90° B
Output circuit	Push-pull short-circuit proof

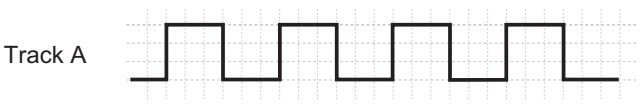
Technical data - mechanical design

Dimensions (flange)	ø58 mm
Shaft	ø10...16 mm end shaft
Motor shaft tolerance	0.25 mm axial 0.1 mm radial
Protection DIN EN 60529	IP 67 (relating to sealed electronics)
Operating speed	≤12000 rpm
Materials	Housing: aluminium Shaft: aluminium
Operating temperature	-20...+85 °C
Relative humidity	90 %
Resistance	DIN EN 60068-2-6 Vibration 10 g, 55-2000 Hz DIN EN 60068-2-27 Shock 100 g, 11 ms
Weight approx.	220 g
Connection	Cable 1 m

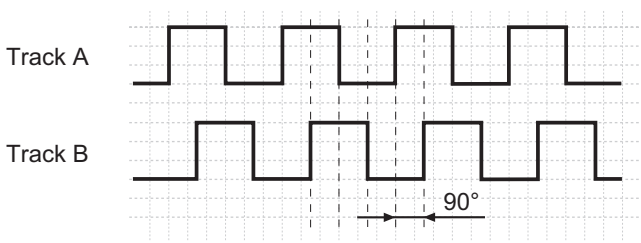
Output signals

Clockwise rotation when looking at the mounting side.

AX-Output signals



BX-Output signals



Terminal assignment

Core colour	Assignment
green	Track A
grey	Track B
brown	UB
white	GND
transparent	Shield/Housing

ITD 27 A 4 Y27

Part number

ITD 27 A 4 Y27		H		KR1	S		IP67

- **Protection**
  - IP67 IP 67
- **End shaft**
  - 10 End shaft ø10 mm
  - 11 End shaft ø11 mm
  - ... ...
  - 16 End shaft ø16 mm
- **Operating temperature**
  - S -20...+85 °C
- **Connection**
  - KR1 Cable 1 m, radial
- **Output signals**
  - AX A
  - BX A, B
- **Voltage supply / signals**
  - H 8...26 VDC / HTL level, push pull
- See part number (pulses)

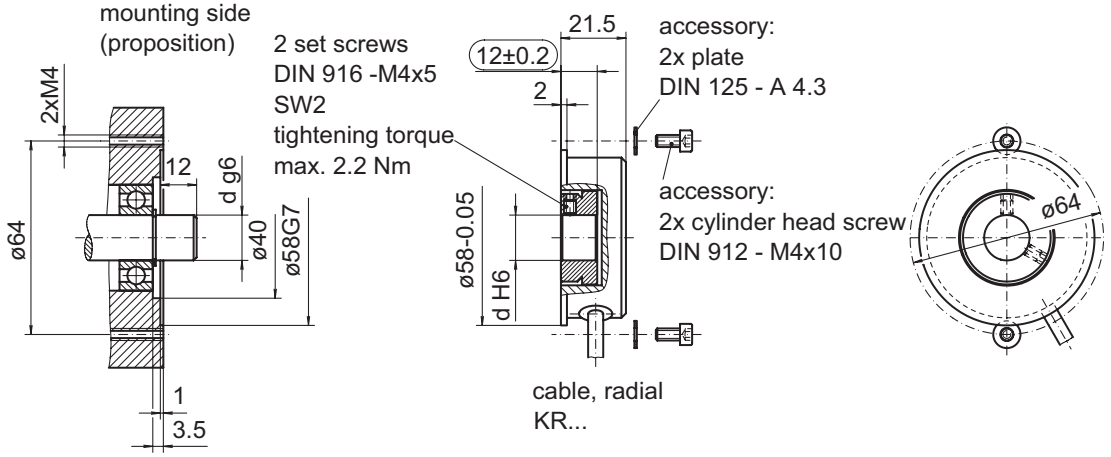
Part number (pulses)

1	8	20
4	16	32

Trigger level

Outputs	**Push-pull** short-circuit proof
Output level High	≥UB -3 V
Output level Low	≤1.5 V
Load	≤20 mA

Dimensions



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