

Incremental Rotary Encoders—40 mm Housing Design

TVI40, TSI40 and THI40 Series



Common Technical Data	
Scanning method	optical
Type of output	Push-pull or RS-422
Pulse count	Max. 1024 pulses
Connection type	Cable, fixed cable with plug
Housing design	Ø 40 mm
Shaft type	Solid, recessed hollow, and hollow shaft
Rotational speed	max. 6,000 rpm
Degree of protection	IP54
Operating temperature	-10 °C ... +70 °C
UL	■

For detailed data and description, see the datasheet. Further products can be found online at [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com).

Shaft type	Shaft dimensions	Recessed hollow shaft	Shaft dimensions	Hollow shaft	Connection type	Signal output	Pulse count
H Hollow shaft	Ø4 x 15 mm	16	0S Ø6 mm; clamping ring on flange	0S Ø6 mm; clamping ring on flange	K0 0.5 m cable	6 A+B+0 and /A+/B+/0	25, 50, 60, 100,
S Recessed hollow shaft	Ø6 x 15 mm	14	0U Ø6.35 mm; clamping ring on flange	0U Ø6.35 mm; clamping ring on flange	K2 2 m cable		150, 180, 200,
V Solid shaft	Ø8 x 15 mm	27	0C Ø8 mm; clamping ring on flange	0C Ø8 mm; clamping ring on flange	BI 0.2 m fixed cable with M12 plug, 8-pin		250, 360, 400, 500,
	Ø3/8" x 15 mm	20	0X Ø3/16"; clamping ring on flange	0X Ø3/16"; clamping ring on flange			600, 1000, 1024
	Ø3/16" x 15 mm	21	2A Ø5/16"; clamping ring on flange	2A Ø5/16"; clamping ring on flange			
	Ø5/16" x 15 mm	22	1S Ø6 mm; clamping ring on cover	1S Ø6 mm; clamping ring on cover			
	Solid shaft		1U Ø6.35 mm; clamping ring on cover	1U Ø6.35 mm; clamping ring on cover			
	Ø1/8" x 15 mm	19	1C Ø8 mm; clamping ring on cover	1C Ø8 mm; clamping ring on cover			
	Ø5 x 15 mm	23	1X Ø3/16"; clamping ring on cover	1X Ø3/16"; clamping ring on cover			
	Ø6 x 15 mm	14	3A Ø5/16"; clamping ring on cover	3A Ø5/16"; clamping ring on cover			
	Ø1/4" x 15 mm	17					
	Ø8 x 15 mm	09					

  

<b>T x I40N-</b>	<b>XX</b>	<b>X</b>	<b>XX</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>N-</b>	<b>XXXX</b>
Housing material Hollow shaft: aluminum Recessed hollow shaft / solid shaft: plastic material		Flange type A Hollow shaft / recessed hollow shaft T Clamping flange		Connection direction T Tangential R Radial		Output circuit T 4.75 V...30 V, PP		

Highlights

- Compact housing design for use in confined spaces
- Flexible cable routing and mounting with tangential cable outlet
- Simple electrical integration through utilization of RS422 functionality
- Complete solution for elevator construction

Brief Description

Performance in a Compact Size

With a diameter of only 40 mm, the rotary encoder is ideal for shaft positioning in elevators. It is available in different shaft versions and therefore fits a wide range of applications. Due to its RS-422 functionality with 5 V operation, electrical integration is also very simple.

Accessories	
9401/9402	Spring steel coupling
9404	Spring disk coupling
9408	Double-loop coupling
9409	Bellows coupling
9410	Precision coupling
9460	Stainless steel bellows coupling
CW	Helix coupling

Example: 9404 10\*10 (D1\*D2 coupling)