Your Global Automation Partner



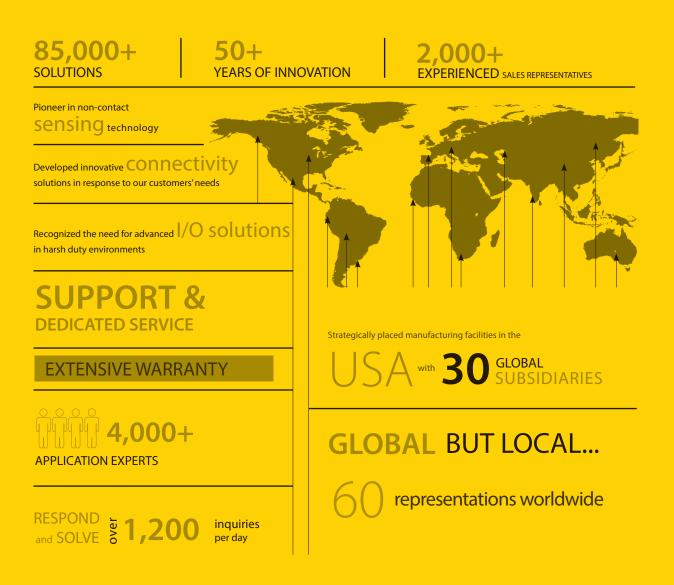
Any Device, 1 Price+2 Week Delivery RI-43 Large Bore Encoders





A Global Leader in Industrial Automation

Turck's sensors, connectivity, and fieldbus technology products are built to be the best. As one of the most **prominent** sensor manufacturers **in the world**, we even back our sensors with a **lifetime warranty**. Turck works by bringing **rugged engineering** solutions to your industrial automation applications.







When you need it now...

Check out our in-stock options for delivery now, or get short delivery times on products not already in stock. Turck has thousands of encoder configuration options available from our in-stock offering. Now, our Any Device, One Price Program also comes with a two-week delivery time on encoders not currently in stock! Let us help you find an encoder from our wide range of solutions for quick shipment.

Rugged yet affordable

The RI-43 series of incremental encoders is a rugged, large bore encoder designed to be used with large shaft vector motors in positioning applications. This industry-leading series of encoders offers:



- Modular design for ease of use
- Economical alternative to more costly competitive encoders
- Wider variety of options, solving more positioning applications
- Easy drop-in replacement for many competitive encoders

Industries

When Precision Counts

Large shaft vector motors often require encoders when precise speed or position feedback is needed. Turck's rugged RI-43 encoders are ideal for applications that need heavy duty measurement: ELEVATOR LIFT EQUIPMENT CONVEYING AND MATERIAL HANDLING MOBILE EQUIPMENT ALTERNATIVE ENERGY GENERATION



In stock, ready to go

Turck makes ordering easy

Turck is now able to deliver the majority of the RI-43 line in two weeks or less! We also have a huge inventory of the RI-43 series encoders to accommodate immediate needs. To see a full listing of products currently in stock at Turck, contact your local sales office.

How to Order: Create any description from the RI-43 Part Key below.

All combinations listed will have the same list price and will be delivered within the two-week delivery window. For full specifications on the RI-43, refer to the RI-43 catalog pages in the Linear, Angular and Rotary Encoder brochure

PART NUMBER KEY:	А	В	С		D		E		F	G/H/I			
RI-43 Hollow Shaft Version	RI-43H	Bore Size	Flange Size	-	Output		ulse Rate	-	Connector /	Specials			
				ext Page									
STEP 1: Choose the model #	Α	Туре											
Choose the model #	RI-43H Ø 100 mm, Hollow Shaft, IP65 Shaft Seal												
STEP 2: Choose the bore size	В	Bore											
	20	Ø 20 mm ¹⁾					40	Q	Ø 40 mm				
	24	Ø 24 m	Ø 24 mm			42	Q	Ø 42 mm					
	25	Ø 25 m	25 mm ¹⁾				A3	Ç	Ø 1/2" ²⁾				
28 Ø 28 mm			nm				A4	Ç	Ø 5/8" ¹⁾				
	30	Ø 30 mm ¹⁾					A5	Q	Ø 3/4" ²⁾				
	32	Ø 32 mm ²⁾					A6	Ø 1" ¹⁾					
	35	Ø 35 m	ð 35 mm			A7	Ø 1-1/8" ²⁾						
	38	3 Ø 38 mm					A8	8 Ø 1-1/4" ¹⁾					
					'			,	 Bores available w Bores only available w 				

	-	57	ΈP	3:
Select	the	f	lan	ge

C	Flange
E2	4-1/2" C-Face Tether
S	Face Mount
S4	Long Anti-Rotation Spring
S5	Short Anti-Rotation Spring
S8	Long Tether Arm



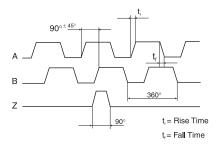
How to Order (cont'd)

PART NUMBER KEY: RI-43 Hollow Shaft Version	A RI-43H	BCDEFG/H/IBore SizeFlange Size-OutputPulse Rate-Connector/Specials							
STEP 4: Choose the output	D	Voltage Supply and Output Type							
choose the output	2E	5-30 VDC, Push-Pull (w/ Inverted Signals)							
	2F	5-30 VDC, Push-Pull (7272 compatible w/ Inverted Signals)							
	4B	5-30 VDC, RS422 (w/ Inverted Signals)							
STEP 5: Choose the pulse rate	E	Pulse Rate							
Choose the pulse fate		50, 360, 512, 600, 1000, 1024, 1500, 2000, 2048, 2500, 4096, 5000							
STEP 7: Choose the connector	F	Type of Connection							
choose the connector	H1181	Radial 8-pin M12 Eurofast Connector							
	12M23	Radial 12-pin M23 Multifast Connector							
	10MIL	Radial 10-pin MS Connector							
	C1M	Radial Cable (1 m PVC)							
STEP 8: Choose specials	G	Special Output Signal Formats							
		See N21 thru N33 on next page							
	н	Special Insert Options							
	N42	Isolation Insert Included ³⁾							
		³⁾ Includes Plastic Hollow Shaft Inserts for Electrical Isolation							
	1	Special Connector Pin Configuration							
		See N40 thru N41 on next page							



Wave Forms Outputs

All Turck encoders come standard with six channels, where A leads B in the clockwise direction and the standard index is gated with A & B. The tolerance of the wave form affects the control, and in some cases it may affect the smoothness of system operation.



A lea	ids B	B leads A					
A leads B when the shaft is turned in the clockwise direction viewing the shaft or collet end.		B leads A when the shaft is rotated in the clockwise direction viewing the shaft or collet end.					
This is Turck's standard. This format applies to the pin key codes listed below.	в	This format applies to the pin key codes listed below.	в в				
A leads B, Z gated with A & B. This is Turck's standard. Z is 90° wide.	z	Code N24: B leads A, Z gated with A & B. Z is 90° wide.					
Code N21: A leads B, Z gated with B. Z is 180° wide.		Code N25: B leads A, Z gated with B. Z is 180° wide.					
Code N22: A leads B, Z gated with A. Z is 180° wide.	z z	Code N26: B leads A, Z gated with A. Z is 180° wide.					
Code N23: A leads B, Z ungated. Z is 330° to 360° wide.	z [] z []	Code N27: B leads A, Z is ungated. Z is 330° to 360° wide.					
Code N28: A leads B, Z is 180° wide.	z z	Code N29: * B leads A, Z gated with B. Z is 180° wide.					
Code N33:* A leads B, Z gated with B . Z is 180° wide.		Code N30: B leads A, Z is a negative marker gated with B. Z is 180° wide.					
Code N31: A leads B, Z is a minimum with of 270° (electrical degrees).	z z	Code N32: B leads A. Z has a minimum width of 270°.					

Note: * For RI-10/12/65 encoders, Z is 160° Wide

Special Pin Configuration:

		Connection Type	Case Ground	Common (0 V)	+V	А	Ā	В	B	Z	Z	-	-
Output Code	N41	M12 Eurofast	Coupling Nut	7	2	1	3	4	5	6	8	-	-
	N40	MS 10-pin	G	F	D	А	Н	В	I	С	J	-	-



Turck Inc. sells its products through Authorized Distributors. These distributors provide our customers with technical support, service, and local stock. Turck distributors are located nationwide – including all major metropolitan market areas.

For Application Assistance or for the location of your nearest Turck distributor, call:

1-800-544-7769

Specifications in this manual are subject to change without notice. Turck also reserves the right to make modifications and makes no guarantee of the accuracy of the information contained herein.

Literature and Media questions or concerns? Contact Turck USA Marketing – tusa.marketing@turck.com



www.turck.com

30 subsidiaries and over

60 representations worldwide!

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