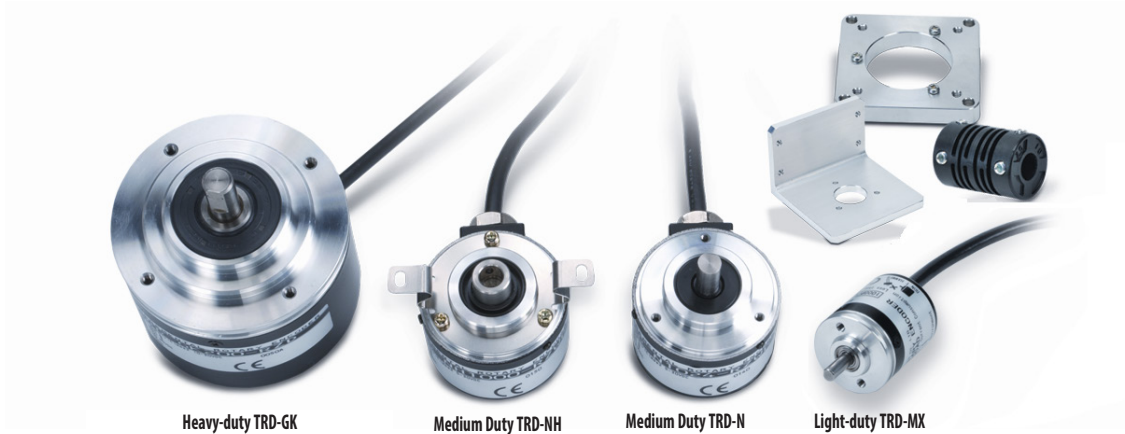


Great Encoder Selection at Great Prices



Heavy-duty TRD-GK

Medium Duty TRD-NH

Medium Duty TRD-N

Light-duty TRD-MX

	Duty	Family	Size	Encoder Diameter	Shaft Diameter	Solid or Hollow Shaft	Operating Voltage (VDC) and Electrical Output*	IP Rating	Max Radial Load (N)	Max Axial Load (N)	Available Resolutions
Incremental	Light Duty	TRD-MX	10	25mm	4mm	Solid	5V Line Driver or 5-12V OC or 12-24V OC	IP50	10	5	100, 360, 500, 1000, 1024
		TRD-S	15	38mm	6mm	Solid	5V Line Driver or 12-24V OC	IP40	20	10	100, 200, 250, 300, 360, 400, 500, 600, 800, 1000, 1024, 1200, 2000, 2500
		TRD-SH	15	38mm	8mm	Hollow	5V Line Driver or 12-24V OC	IP40	20	10	100, 200, 250, 300, 360, 400, 500, 600, 800, 1000, 1024, 1200, 2000, 2500
	Medium Duty	TRD-N	20	50mm	8mm	Solid	5V Line Driver or 5-30V P/P	IP65	50	30	10, 30, 40, 50, 60, 100, 120, 200, 240, 250, 300, 360, 400, 480, 500, 600, 750, 1000, 1024, 1200, 2000, 2500, 3000, 3600, 5000
		TRD-NH	20	50mm	8mm	Hollow	5V Line Driver or 5-30V P/P	IP65	50	30	10, 30, 40, 50, 60, 100, 120, 200, 240, 250, 300, 360, 400, 480, 500, 600, 750, 1000, 1024, 1200, 2000, 2500, 3000, 3600, 5000
	Heavy Duty	TRD-GK	30	78mm	10mm	Solid	10-30V P/P	IP65	100	50	30, 100, 120, 200, 240, 250, 300, 360, 400, 500, 600, 800, 1000, 1200, 1500, 1800, 2000, 2500, 3600, 5000
Medium Duty Absolute	TRD-NA	20	50mm	8mm	Solid	10-30V OC	IP65	50	30	32, 64, 128, 180, 256, 360, 512, 720, 1024 (grey code)	

All encoders feature an integral 2m cable

*Operating Voltage and Electrical Output:
 • LD = Line Driver (all Line Drivers require 5VDC supply)
 • OC = NPN Open Collector (at Operating Voltage)
 • P/P = Push Pull or Totem Pole (at Operating Voltage)

Accessories

Couplings

A variety of couplings - metric-to-metric, inch-to-inch (SAE - SAE), and metric-to-inch are in stock, ready to ship.



Flanges

A collection of flanges that ease encoder mounting. Several models are available with round flanges, square flanges and miscellaneous mounting options.

Mounting brackets

Simplify your installation with a ready-to-use right-angle mounting bracket for light, medium and heavy-duty encoders



Cables

For encoders that require a connector cable, we have cables in stock, priced right and ready to ship.

Encoder Selection Guide Metric-dimension Encoders



Metric-dimension Encoder Selection						
Specification	TRD-MX Series					
	TRD-MXxxxAD		TRD-MXxxxBD		TRD-MXxxxVD	
Description	Light duty incremental encoder with solid shaft		Light duty incremental encoder with solid shaft		Light duty incremental encoder with solid shaft	
Size	Body: 25 mm diameter and 29 mm depth; Shaft: 4mm diameter		Body: 25 mm diameter and 29 mm depth; Shaft: 4mm diameter		Body: 25 mm diameter and 29 mm depth; Shaft: 4mm diameter	
Output Configuration	NPN open collector (AD)		NPN open collector (BD)		Line driver (VD)	
Input Power	5–12 VDC (nominal); Range: 4.5–13.2 VDC		12–24 VDC (nominal); Range: 10.8–26.4 VDC		5VDC (nominal); Range: 4.75–5.25 VDC	
Resolutions Available	100 to 1024 pulses per revolution		100 to 1024 pulses per revolution		100 to 1024 pulses per revolution	
Output Type	Cable (two meter, tinned)		Cable (two meter, tinned)		Cable (two meter, tinned)	
Frequency Response	100 kHz max		100 kHz max		100 kHz max	
Rating	IP50		IP50		IP50	
Accessories Available	Metric-to-metric couplings, mounting brackets					
Specification	TRD-S Series		TRD-SH Series		TRD-N Series	
	TRD-Sxxx-BD	TRD-Sxxx-VD	TRD-SHxxx-BD	TRD-SHxxx-VD	TRD-Nxxx-RZWD	TRD-Nxxx-RZVWD
Description	Light duty incremental encoder with solid shaft		Light duty incremental encoder with hollow shaft		Medium duty incremental encoder with solid shaft	
Size	Body: 38 mm diameter and 30 mm depth; Shaft: 6mm diameter		Body: 38 mm diameter and 30 mm depth; Shaft: 8mm diameter		Body: 50 mm diameter and 35 mm depth; Shaft: 8mm diameter	
Output Configuration	NPN open collector (BD)	Line driver (VD)	NPN open collector (BD)	Line driver (VD)	Totem pole (RZWD)	Line driver (RZVWD)
Input Power	12–24 VDC (nominal) Range: 10.8–26.4 VDC	5VDC (nominal) Range: 4.75–5.25 VDC	12–24 VDC (nominal) Range: 10.8–26.4 VDC	5VDC (nominal) Range: 4.75–5.25 VDC	5–30 VDC (nominal) Range: 4.75–30.0 VDC	5VDC (nominal) Range: 4.75–5.25 VDC
Resolutions Available	100 to 2500 pulses per revolution		100 to 2500 pulses per revolution		3 to 5000 pulses per revolution	
Output Type	Cable (two meter, tinned)		Cable (two meter, tinned)		Cable (two meter, tinned)	
Frequency Response	200 kHz		200 kHz		100 kHz max	100 kHz max (≤3000 ppr) 200 kHz max (>3000 ppr)
Rating	IP40		IP40		IP65	
Accessories Available	Metric-to-metric couplings		–		Metric-to-metric couplings, mounting brackets	
Specification	TRD-NH Series		TRD-NA Series		TRD-GK Series	
	TRD-NHxxx-RZWD	TRD-NHxxx-RZVWD	TRD-NAxxxNWD		TRD-GKxxx-RZD	
Description	Medium duty incremental encoder with hollow shaft		Medium duty absolute encoder with solid shaft		Heavy duty incremental encoder with solid shaft	
Size	Body: 50 mm diameter and 35 mm depth; Shaft: 8mm diameter		Body: 50 mm diameter and 35 mm depth; Shaft: 8mm diameter		Body: 78 mm diameter and 60 mm depth; Shaft: 10 mm diameter	
Output Configuration	Totem pole (RZWD)	Line driver (RZVWD)	NPN open collector		Totem pole	
Input Power	5–30 VDC (nominal) Range: 4.75–30.0 VDC	5VDC (nominal) Range: 4.75–5.25 VDC	12–24 VDC (nominal) Range: 10.8–26.4 VDC		10–30 VDC (nominal) Range: 9.7–30.9 VDC	
Resolutions Available	3 to 5000 pulses per revolution		32 to 1024 pulses per revolution		30 to 5000 pulses per revolution	
Output Type	Cable (two meter, tinned)		Cable (two meter, tinned)		Cable (two meter, tinned)	
Frequency Response	100 kHz max	100 kHz max (≤3000 ppr) 200 kHz max (>3000 ppr)	20 kHz max		100 kHz	
Rating	IP65		IP65		IP65	
Accessories Available	–		Metric-to-metric couplings, mounting brackets		Metric-to-metric couplings, mounting brackets	