

Extensive Encoder Selection at Great Prices

	Duty	Series	Encoder Diameter	Shaft Diameter	Shaft Type	Operating Voltage (VDC) and Electrical Output	IP Rating	Cable	Ma L
Incremental	Modular/Kit	AMT	28mm, 42mm	2, 3, 4, 5, 6, 8mm, 3/16, 1/4, 3/8, 1/2, 5/8 inch	hollow	5V Line Driver (TTL) or 5V Push-Pull (Totem Pole)	IP20	purchase custom cables separately	
		MTRA	31mm	5mm, 1/4", 3/8"	hollow	5V Line Driver (TTL) or 5V Push-Pull (Totem Pole)	IP20	purchase custom cables separately	
	Light Duty	TRD-S(H)R	38 or 40mm	8mm	solid or hollow (H)	5V Line Driver (TTL) or 5-26V NPN/PNP open collector (HTL)	IP50 or IP65	integral 2m pigtail cable	
		A41	41mm	1/4"	solid or hollow	5-30VDC Universal output circuit: Push-Pull (Totem Pole), or NPN/PNP open collector (HTL), or Line Driver (TTL)	IP64	integral 2m pigtail cable	
	Medium Duty	A50	50mm	1/4", 3/8"	hollow		IP65	purchase M12 cables separately	
		A80	80mm	30mm (reducer bushings available for 19, & 20 mm; 5/8, 7/8, 1, & 1 1/8 inch)	hollow		IP64	purchase M23 cables separately	
		AQ58/59	58 or 59mm	3/8" solid, 15mm hollow (reducer bushings available for 6, 8, 10, 11, 12mm; 1/4, 3/8, 1/2 inch)	solid or hollow		IP65	purchase M12 cables separately	
		AR01	58mm	15mm	solid dual-shaft		IP65	purchase M12 cables separately	
		TRDA-20	2"	3/8"	solid	5VDC Line Driver (TTL) or 5-30VDC Push-Pull (Totem Pole)	IP50	integral 2m pigtail cable	
		TRDA-25	2.5" flange (w/ 2.0" body)	3/8"	solid	5VDC Line Driver (TTL) or 5-30VDC Push-Pull (Totem Pole)	IP65	purchase Military Spec (MS) cables separately	
		TRD-N(H)	50mm	8mm	solid or hollow (H)	5VDC Line Driver (TTL) or 5-30VDC Push-Pull (Totem Pole)	IP65	integral 2m pigtail cable	
	Heavy Duty	TRD-GK	78mm	10mm	solid	10-30VDC Push-Pull (Totem Pole)	IP65	integral 2m pigtail cable	
	Absolute	TRD-NA	50mm	8mm	solid	10-30V NPN/PNP open collector (HTL)	IP65	integral 2m pigtail cable	

* Mod

Quality Encoder Accessories

Shaft Adapter Bushings

Bore reducer bushings allow the A80 and AQ59 hollow shaft encoders to fit a variety of shaft sizes



Cables

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



Couplings

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



Max Radial Load (N)	Max Axial Load (N)	Available Resolutions (PPR)	Brand
NA*	NA*	Programmable Up to 4096	same sky
NA*	NA*	400, 1000	Surestep
20	10	100, 200, 360, 500, 600, 1000, 1024, 2000, 2500	JTEKT
20	20	100, 200, 360, 500, 1000, 1024, 200, 2048, 3600, 4096	lika
20	20	360, 1000, 1024, 2048	
30	30	1024	
100	100	Programmable from 1 to 16,384 (default 1024)	
50	50	250 (linear res: 0.36 deg/cts) 1250 (linear res: 0.072 deg/cts)	
50	30	100, 360, 500, 1000, 1024, 2500	JTEKT
50	30	100, 360, 500, 1000, 1024, 2500	
50	30	3, 4, 5, 10, 30, 40, 50, 60, 100, 120, 200, 240, 250, 300, 360, 400, 480, 500, 600, 750, 1000, 1024, 1200, 2000, 2500	
100	50	30, 100, 120, 200, 240, 250, 300, 360, 400, 500, 600, 1000, 1200, 2000, 2500, 3600, 5000	
50	30	32, 64, 128, 180, 256, 360, 512, 720, 1024 (gray code)	

*JTEKT/JTEKT encoders are direct mount, there are no load ratings

Mounting Brackets

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

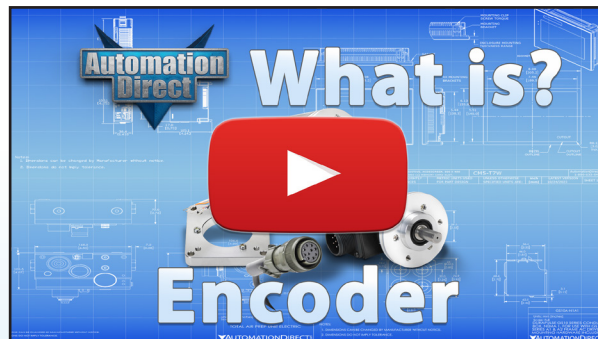


Flanges

Flanges are available to ease encoder mounting to round or square faces along with miscellaneous mounting options.

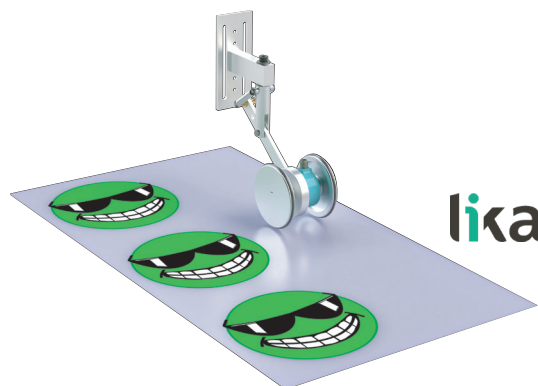


Learn more about encoders



Click above or go to <http://go2adc.com/encoder> to view

Need a Measuring Wheel Encoder?



AR01 Series (Priced at \$299.00)

Medium-duty measuring wheels ride directly on the product (above or below) or a conveyor to measure or provide speed control feedback. These can also be used for cut-to-length and positioning applications.

- Metric and US/imperial wheel sizes
 - Standard 4" wheel (12.5" circumference)
 - Optional 80mm wheel (250mm circumference)
- Spring loaded arm with up to 30mm deflection
- IP65 environmental rating

Encoder Selection Guide

SAE Dimension Encoders & Metric Dimension Encoders

SAE Dimension Encoder Selection									
Specification	TRDA-2E Series		TRDA-20 Series		TRDA-25 Series				
	TRDA-2ExxxBD	TRDA-2ExxxVD	TRDA-20R1NxxxRZD	TRDA-20R1NxxxVD	TRDA 25RNxxxRZWDMS	TRDA 25RNxxxRZVWDMS			
Description	Light duty incremental encoder with solid shaft		Medium duty incremental encoder with solid shaft		Medium duty incremental encoder with solid shaft				
Size	Body: 1.5 in. diameter and 1.6 in. depth; Shaft: 0.25 in. diameter		Body: 2.0 in. diameter and 1.7 in. depth; Shaft: 0.375 in. diameter		Removable Flange: 2.5 in. round; Body: 2.0 in. diameter and 2.15 in. depth; Shaft: 0.375 in. diameter				
Output Configuration	NPN open collector (BD)	Line driver (VD)	Totem pole (RZD)	Line driver (VD)	Totem pole (RZWD)	Line driver (VWVD)			
Input Power	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	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		100 to 2500 pulses per revolution				
Output Type	Cable – 2m [6.6 ft], tinned		Cable – 2m [6.6 ft], tinned		Military style (MS) connector				
Frequency Response	200kHz		100kHz	200kHz	100kHz	200kHz			
Rating	IP50		IP50		IP65				
Accessories Available	couplings, mounting bracket, mounting flanges		couplings, mounting bracket, mounting flanges		cables, couplings, mounting flanges				
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: 25mm diameter and 29mm depth; Shaft: 4mm diameter		Body: 25mm diameter and 29mm depth; Shaft: 4mm diameter		Body: 25mm diameter and 29mm 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	100kHz max		100kHz max		100kHz max				
Rating	IP50		IP50		IP50				
Accessories Available	Metric-to-metric and metric-to-S.A.E. couplings, mounting brackets								
Specification	TRD-S/TRD-SH Series			TRD-SR/TRD-SHR Series			TRD-N Series		
	TRD-S(H)xxxAD	TRD-S(H)xxx-BD	TRD-S(H)xxx-VD	TRD-S(H) RxxxA(5)D	TRD-S(H) RxxxAW(0)D	TRD-S(H) RxxxV(5)D	TRD-S(H) RxxxVW(0)D	TRD-Nxxx-RZWD	TRD-Nxxx-RZVWD
Description	Light duty incremental encoder with solid (S) or hollow (SH) shaft			Light duty incremental encoder with solid (S) or hollow (SH) shaft				Medium duty incremental encoder with solid shaft	
Size	Body: 38mm diameter and 30mm depth; Shaft: 6mm (S) or 8mm (SH) diameter			38mm Ø	40mm Ø	38mm Ø	40mm Ø	Body: 50mm diameter and 35mm depth; Shaft: 8mm diameter	
Output Configuration	NPN open collector (AD)	NPN open collector (BD)	Line driver (VD)	NPN open collector		Line driver (differential)		Totem pole (RZWD)	Line driver (RZVWD)
Input Power	5-12 VDC (nominal) Range: 4.75-13.2 VDC	12–24 VDC (nominal) Range: 10.8–26.4 VDC	5VDC (nominal)Range: 4.75–5.25 VDC	5-26 VDC (nominal) Range: 4.75-26.4 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	200kHz			200kHz			100kHz max	100kHz max (≤3000 ppr) 200kHz max (>3000 ppr)	
Rating	IP40			IP50	IP65	IP50	IP65	IP65	
Accessories Available	Metric-to-metric and metric-to-S.A.E. couplings			Metric-to-metric and metric-to-S.A.E. couplings, mounting brackets			Metric-to-metric and metric-to-S.A.E. 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: 50mm diameter and 35mm depth; Shaft: 8mm diameter			Body: 50mm diameter and 35mm depth; Shaft: 8mm diameter			Body: 78mm diameter and 60mm 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 2048 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	100kHz max		100kHz max (≤3000 ppr) 200kHz max (>3000 ppr)	20kHz max			100kHz		
Rating	IP65			IP65			IP65		
Accessories Available	–			Metric-to-metric and metric-to-S.A.E. couplings, mounting brackets			Metric-to-metric and metric-to-S.A.E. couplings, mounting brackets		