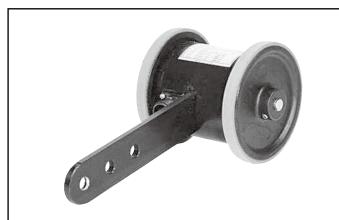
WORLD ENCODERS

1-800-903-9093

SIZE 30 SERIES RH

WHEELED INCREMENTAL SHAFT ENCODER



Starting at US \$520.00 S.R.P. List Price (A ch only) with Std. 12" cir. wheels (Urethane Tire)

Electrical

Pulse per Revolution	Up to 1200 P/R, 1800, 3600 (A ch only)
Output Format	Single Ended (A ch.)
	Dual Square Wave in Quadrature
	(A & B ch.)
	Dual Square Wave in Quadrature
	with Index (A, B, Z ch.)
Supply Voltage (V) & Out	put Circuit
8-30	Pull-up Resistor TTL, Current Sinking
	(Max. 50mA)
5-26C	Open Collector 7273 (Max. 50mA)
5-26D, 5-26DH	Diff. Line Driver 7272 (Max. 100mA)
5-26PP	Push-Pull 7272 (Max. 50mA)
120ACT	AC120v, Triac Output
Frequency Response	100kHz
Duty Ratio	50±25%
Phase Shift	25±12.5%
Index Signal Width	100±50%

Mechanical

Shaft Diameter	3/8"
Shaft Type	Dbl. ended
Shaft Loading	Axial: 10 lbs. Max.
	Radial: 25 lbs. Max.
Rated Speed	6000 RPM
Materials	Aluminum Case (Anodized)
	Shaft: 303 Stainless
Weight	1.5 lb. (700g)

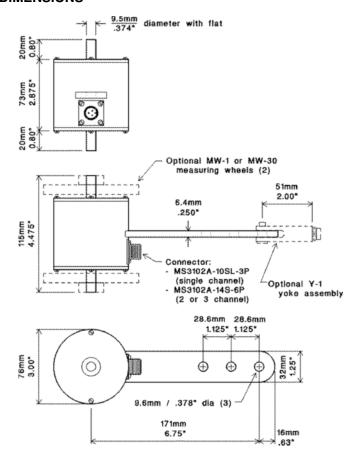
FEATURES

WORLD ENCODERS

brand, Made in USA

- The RH encoder, also known as a Pulse Position Indicator (PPI), generates tracking pulses for web applications when used with barcode laser scanners or CCD vision systems.
- It typically is equipped with two 12 inch or 30 centimeter circumference measuring wheels that ride directly on the conveyor belt or web, eliminating any slippage problems typically encountered with shaft encoders.
- With its double wheel construction, the encoder is selfaligning when allowed to pivot freely from its integral arm.
- The encoder's weight is sufficient to maintain contact when mounted above the moving material.
- · Special mounting accessories are also available.

DIMENSIONS





SIZE 30 Series RH Wheeled Incremental Shaft Encoder

Model	Channels	Resolution	Voltage/Output	Measuring Wheel
RH			1	
			ORDERING INFORMATION	
RH	Blank: Sgl-ended (A ch. Only)	24 360 60 500	8-30 = Pull-up Resistor TTL Current Sinking 8~30vdc	MW-1: Std. (2) MW-1-B wheels
	Q: Quadrature (A & B ch.)	100 512* 120 600*	5-26C = Open Collector 5-26vdc 7273 (NPN w/o resistor)	3" dia., 12" cir., 3/8" wide Options:
	QZ: Quadrature w/index	180* 720* 200* 1000	5-26D = Diff. Line Driver 7272 5~26vdc (MS 6 pin, A & B ch)	MW-1W: 1" wide, 12" cir.
	(A, B, & Z ch.) P: Programmable	240 1024 250* 1200	5-26DH = Diff. Line Driver 7272 5~26vdc (MS 10 pin, A, B & Z ch)	MW-30W: 1" wide, 30 cm cir. MW-30: 3/8" wide. 30 cm cir.
	w/Sgl-ended (A ch.)	300* 1800** 3600**	5-26PP = Push-Pull 5~26vdc 7272 120ACT = 120vAC Triac**	1111 00. 0/0 Wide, 00 0/11 0/1.

PRICING INFORMATION

Model	Chan	nels	Resolution	Anti-Jitter	Voltage/Output	
RH	Blank: A Ch. Only	N/C	24 Thru N/C		8-30: (Pull-up)	N/C
Base Price \$490.00	* Q: A & B Ch.	Add \$30.00	360	Blank: Std.	5-26C: (Open Collector) 5-26D	Add \$25.00 Add \$25.00
	* QZ: A, B & Z Ch.	Add \$80.00	500 Thru Add \$30.00 1200	AJ: Add \$40.00	(Line Driver) 5-26PP (Push-Pull)	Add \$25.00
	P: Prog.	Add \$30.00	1800** 3600** ^{Add \$50.00}		120ACT (120vAC Triac)	Add \$70.00

Standard Stock Items: Shipped immediately.

*Lead Time: 7 - 10 days to ship.

**Available: A ch only

PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	
RH-500/8-30MW-1	\$520.00	Measuring Wheels for Replacement (U	rethane Tire)	
RHQ-1000/5-26DLMW-1	\$575.00	#MW-1-B 3" Dia,12" Circumference	\$50.00	
RH-1000/8-30MW-1	\$520.00	3/8" wide, 3/8" Hub I.D."		
RH-1024/8-30MW-1	\$520.00	#MW-1W-B 3" Dia, 12" Circumference	\$50.00	
RH-1200/8-30MW-1	\$520.00	1" wide, 3/8" Hub I.D.	*	
Best Selling Models for Con		#MW-30-B 30cm Circumference 3/8" wide, 3/8" Hub I.D.	\$50.00	
RH-4AJ/24PMW-1	\$560.00	#MW-30W-B 30cm Circumference	ΦE0.00	
RH-24AJ/12CMW-1	\$530.00	1" wide, 3/8" Hub I.D.	\$50.00	
RH-P240AJ/8-30MW-1	\$590.00	Mating Connector with 10-20 Ft. Cable Assembly		
RH-P600AJ2/8-30MW-1	\$590.00	3		
RH-P600AJB/8-30MW-1	\$590.00	#C3-3-10CF (A ch.only Sgl.ended) MS 3 pin mating w/10ft cable (3 wires)	\$35.00	
RHQZ360/5-26DHW1M226	\$595.00	. , ,	\$40.00	
Mounting Bracket		#C6-4-10CF (A,B ch) \$ MS 6pin mating w/10ft cable (4 wires)	\$4 0.00	
#Y-1 York Ass'y w/1/4"-28 Bolt	\$15.00			
#Y-3 York Ass'y w/3/8"-16 Bolt	\$15.00	#C6-6-10CF (A,B & Z chs.) or (A, Ā, B, Ē, chs.)	\$40.00	
#MB-UB2 Offset Mtg. Bracket w/7" Arm	\$60.00	MS 6 pin mating w/10ft cable (6 wires)		
#MB-UB2A Offset Mtg. Bracket w/11.25" Arm	\$70.00	#C6-6-20CF	\$80.00	
#MB-UB3 Under-Belt Center Hgt. Foot Bracket	\$90.00	MS 6 pin mating w/20ft cable (6 wires)		
w/2 springs tension controlled		#C10 0 101 D /A A D D Z Z -ha 1 to - 4 to A	#0E 00	
#MB-UB4 Under-Belt Mtg. Bracket w/2	\$85.00	#C10-9-10LD (A, Ā, B, Ē, Z, Z̄ chsLinedriver)	\$85.00	
springs tension controlled		MS10 pin mating w/10ft cable (9 wires)		

Standard Stock Items: Shipped immediately.

*Lead Time: 7 - 10 days to ship.

**Available: A ch only

SIZE 30 SERIES RH

1-800-903-9093

WHEELED INCREMENTAL SHAFT ENCODER

Environmental

Temperature	Operating: 0 ~ 70°C
	Storage: -10 ~ 85°C
Operation Humidity	35-85% without condensation
Vibration	Max 10g (58 to 500 Hz)
Shock	50g (11 ms duration)
Enclosure	IP-54/NEMA 12

Wiring Diagram

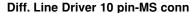
PIN #	3 Pin	6 Pin	Same	6 pin Diff.	Same
	Sgl-ended	Sgl-ended	Wire Color	Line Driver	Wire Color
A	Common	Common	Black	Common	Black
В	Supply Voltage	Supply Voltage	Red	Supply Voltage	Red
С	_	Z ch.	Brown	A ch.	White
D	A ch.	A ch.	White	A not ch.	Blue
E	_	B ch.	Green	B ch.	Green
F	_	N/C	_	B not ch.	Brown
Mating Connector	3 Pin=MS3102A-10SL-3P	6 Pin=MS3102A-14S-6I	Р		
Mating connector with	A ch only 3 Pin	Part #C6-3-10CF (3 wire	es)		
10 ft Cable Ass'y	A, B, Z, ch 6 Pin	Part #C6-6-10CF (6 wire	es)		

Mating Connector with 10 ft cable ass'y



Outputs

- Pull Up Resistor (Currnet Sinking) An NPN transistor with a pull-up resistor and capable of sinking 50ma of current per output. This type of encoder output is used with a PLC or other control device that sources current. Current flows out of the PLC to the encoder, which uses the NPN transistor to represent binary logic by optionally switching the current source to ground.
- 7273 Open Collector (NPN) For applications requiring an uncommitted output. The output voltage level can be pulled up with an external resistor to a maximum of 30vdc. Maximum sink current is 50ma. per output.
- Push-Pull (7272) This general purpose output functions as a PNP transistor for applications requiring a current sourcing output. It functions as an NPN transistor with 3.3K pull-up for applications requiring a current sinking output. This output is TTL compatible when used with a 5vdc supply. Maximum source / sink current is 50 ma. per output.



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MS10		Wire	
Connector Pin	Function	Color	
А	Output +A	White	
В	Output +B	Green	
С	Output +Z	Yellow	
D	Supply Volts	Red	
Е	not used	_	
F	Common	Black	
G	Case Ground	Shield	
Н	Output -A	Blue	
I	Output -B	Brown	
J	Output -Z	Orange	

Mating Connector (10 pin)

#DMS3106E18-1S \$38.00 (order separately)

- - 120vac Triac an optically isolated triac capable of directly driving most 120 vac loads up to 2 amps (ms) without the use of any external components. It includes a zero crossing detector that switches the triac on and off synchronously at near zero volts. The triac output can be directly interfaced to AC inputs on most PLCs and other motion controllers. Only available with 120 vac supply voltage.







WORLD ENCODERS

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OPTIONAL PARTS:

Order Separately

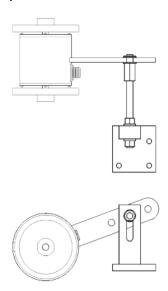
Yoke Assembly

Size	Mt. Beam Size	Part No.	List Price
2.25"L x 5/8"	1/4" - 28	Y-1	\$15.00
2.25"L x 5/8"	3/8" - 16	Y-3	\$15.00

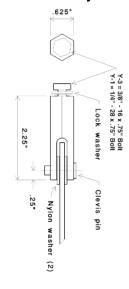
Offset Foot Bracket

Size	Part No.	List Price
3.125"H x 7.00" Arm	MB-UB2	\$60.00
3.125"H x 11.25" Arm	MB-UB2A	\$70.00

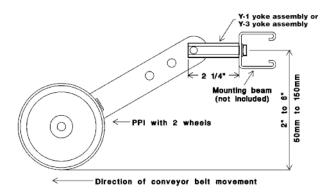
w/ Offset Foot Bracket



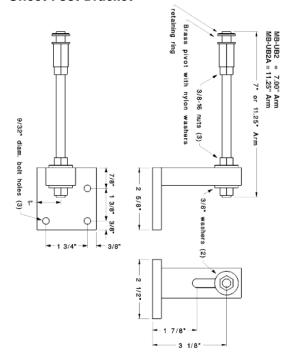
Yoke Assembly



Yoke Assembly



Offset Foot Bracket



MB-UB3 / Under-Belt Center Hgt Bracket List Price \$90.00

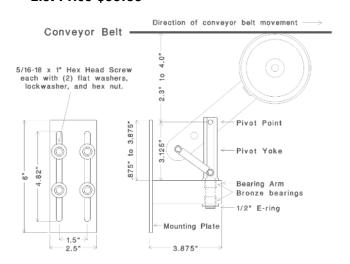


Figure 1: MB-UB3 Assembly (shown with PPI)

MB-UB4 / Under-Belt Center Hgt Bracket List Price \$85.00

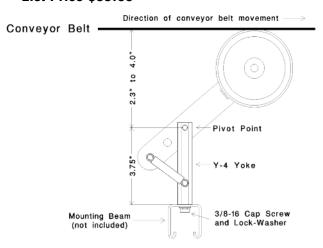


Figure 1: MB-UB4 Assembly (shown with PPI)