

# **INCREMENTAL ENCODER FOR RACK**

### MAIN FEATURES

Encoder for rack with automatic slack recovery. If compared to an incremental linear system, this type of encoder extremely simplifies linear measurements and overcomes measurement problems on long distance.

Encoder is sealed in a solid aluminium body and integrate a preloading system that allows automatic slack recovery between rack and pinion.

- 3 channel encoder (A / B / Z) up to 2500 ppr
- Power supply up to +30 V DC with several electrical interfaces available
- Up to 220 kHz output frequency
- Cable or connector output



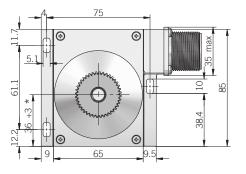


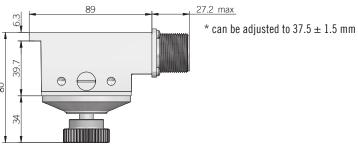


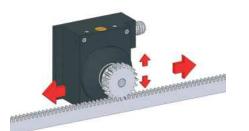


ORDERING CODE EC	34A	500	S	5/28	P	10	P	. XXX		
SERIES encoder for rack EC										
1	MODEL lange 34A									
	<b>RESOLUTION</b> ppr 100 2500									
refer to t	he available	•								
	<b>ZERO PULSE</b> without zero pulse S with zero pulse Z									
	POWER SUPPLY									
	(Wi	th L electric	al interface) 5 28 \	5 V DC 5 / DC 5/28						
				TRICAL IN						
			N	PN open c	ollector C sh-pull P					
				lin	e driver L					
	power supply 5/28V - output RS-422 RS   SHAFT DIAMETER mm 10									
	OUTPUT TYPE									
cable (standard length 1,5 r preferred cable lengths 2/3/5/10 m, to be added after output ty MIL connecto										
						C-5432 co	nnector J			
	temale o	connector in	ciuded, with	out temale	piease add	162 as vari		VARIANT		
								TAINIAITI		

34A







for rack and cogged wheel please refer to Accessories

dimensions in mm

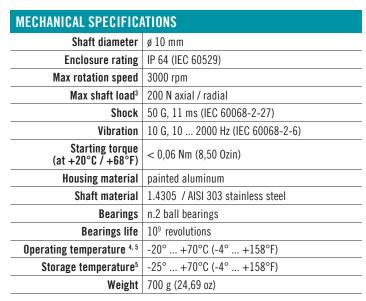
LECTRICAL SPECIFICATIONS						
Resolution	from 100 to 2500 ppr					
Power supply <sup>1</sup>	$5 = 4.5 \dots 5.5 \text{ V DC}$ $5/28 = 4.5 \dots 30 \text{ V DC}$ (reverse polarity protection)					
Current consumption without load	100 mA max					
Max load current	C/P = 50  mA / channel L/RS = 20  mA / channel					
Electrical interface <sup>2</sup>	NPN open collector (AEIC-7273, pull-up max +30 V DC) push-pull / line driver HTL (AEIC-7272) line driver RS-422 (AELT-5000 or equivalent)					
Max output frequency	220 kHz					
Counting direction	A leads B clockwise (shaft view)					
Electromagnetic compatibility	according to 2014/30/EU directive					
RoHS	according to 2015/863/EU directive					
UL / CSA	certificate n. E212495					

- <sup>1</sup> as measured at the transducer without cable influences
- <sup>2</sup> for further details refer to OUTPUT LEVELS on TECHNICAL BASICS section
- <sup>3</sup> maximum load for static usage
- 4 measured on the transducer flange
- <sup>5</sup> condensation not allowed

# RESOLUTIONS

100 - **200** - 300 - 360 - 400 - **500** - 512 - 600 - 720 - **1000** - 1024 - 1200 - 1440 - **2000** - 2048 - 2500

please directly contact our offices for other pulses, preferred resolutions in bold









custom version XXX

Eltra takes no responsibility for typographic errors. For the terms of sales please check the website. REV. 191206

# OTHER PRODUCTS | EC 34

CONNECTIONS								
Function	Cable C / P	Cable L / RS	7 pin J C / P	7 pin J L / RS no Zero	7 pin M C / P	7 pin M L / RS no Zero	10 pin J L / RS with Zero	10 pin M L/RS with Zero
+V DC	red	red	6	4	F	D	4 - 5	D - E
0 V	black	black	1	6	Α	F	6	F
A+	green	green	3	1	С	А	1	A
A-	/	brown or grey	/	3	/	С	7	G
B+	yellow	yellow	5	2	E	В	2	В
B-	/	orange	/	5	/	E	8	Н
Z+	blue	blue	4	/	D	/	3	С
Z-	/	white	/	/	/	/	9	I
<u></u>	shield	shield	7	7	G	G	10	J

J connector (7 pin) JIS-C-5432 Size 16 solder side view FV



M connector (7 pin) Amphenol MS3102-E-16-S solder side view FV



J connector (10 pin) JIS-C-5432 Size 16 M connector (10 pin) Amphenol MS3102-E-18-1 solder side view FV







### MAIN FEATURES

Measuring wheel series designed for specific industrial applications where is required to measure a linear movement (i.e. continuous sheet cutting machines of wood, textiles, glass, etc.).

The body is entirely designed of aluminium and mounted using an oscillating arm pivoted on the shaft. The weight of the metric wheel keeps a stable contact with the material, allowing an accurate measurement of both length and speed. Wheel surface can be in crossed-knurl aluminium, special anti-oil or anti-sliding rubber.

- · 3 channel encoder (A / B / Z) up to 5000 ppr
- Power supply up to +30 V DC with several electrical interfaces available
- Up to 105 kHz output frequency
- Compact size
- Cable output









ORDERING CODE	RH200 A	500	S	5/28	P	8	X	3	PR	. XXX
200 mr	model n measuring wheel RH200 WHEEL SURFACE smooth A knurled B rubberized C									
	without wheel /									
	ppr from 5 refer to the available	0 to 5000								
		<b>ZEF</b> without zer	o pulse Z	OUDDLY.						
	(wit	th L electrica		5 V DC 5 DC 5/28						
				pu	ollector C ish-pull P					
		power sup	ply 5/28V -	lin output R -						
					SHAFT D	IAMETER mm 8				
					E	NCLOSUR	E RATING IP 54 X			
	MAX ROTATION SPEED 3000 rpm 3									
OUTPUT TYPE  cable (standard length 0,5 m) PR  preferred cable lengths 1,5 / 2 / 3 / 5 / 10 m, to be added after DIRECTION TYPE (eg. PR5)										

VARIANT custom version XXX





