

## 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
В-	/	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







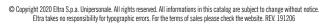


ORDERING CODE	RH200 A	500	S	5/28	P	8	X	3	PR	. XXX
200 mr	model n measuring wheel RH200 WHEEL SURFACE smooth A knurled B rubberized C									
	without wheel /									
	ppr from 5 refer to the available	0 to 5000								
		<b>ZEF</b> without zer	o pulse Z	OUDDLY.						
	(wit	th L electrica		5 V DC 5 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			
						MA	X ROTATIO	N SPEED 00 rpm 3		
	р	referred cab	le lengths 1,	5/2/3/5	5 / 10 m, to I		able (stand ter DIRECTIO	lard length (		

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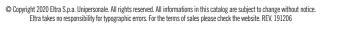


















## MAIN FEATURES

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 10000 ppr
- Power supply up to +28 V DC with several electrical interfaces available
- Up to 500 kHz output frequency
- Model RM with internal coupling
- Cable or connector output





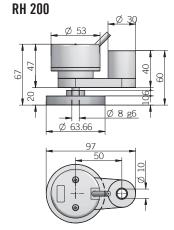




ORDERING CODE	RL500	A	500	S	5/28	Р	10	Х	3	P	R	. XXX
	I rubl withou (mod. RL) ; (mod. RM) ;	opr from 10 opr from 1 e available p w (with	to 10000 pulses list ZEF vithout zer with zer	RO PULSE to pulse S to pulse Z POWER al interface) 5 28 V ELEC	DC 5/28 TRICAL IN PN open c pu lin	ollector C sh-pull P e driver L S-422 RS SHAFT D	IAMETER mm 10	E RATING				
							MA	IP 64 X IP 66 S X ROTATIO 30	IN SPEED 00 rpm 3			
			preferr			5 / 10 m, to	be added a	JIS- I P40 IEC 60	ndard lengt TION TYPE ( MIL cor C-5432 co M12 conne M23 cor D130-9 cor	eg. PR5) nnector M nnector J ector M12 nnector H nnector C		
										DIRECTI	ON TYPE axial A radial R	



**MECHANICAL SPECIFICATIONS** 



ELECTRICAL SPECIFICATIONS					
Resolution	from 50 to 5000 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				
May load ourrent	C/P = 50  mA/channel				

Max load current	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 (AEIT-5000 or equivalent)
Max output frequency	105 kHz up to 1024 ppr 500 kHz from 2000 ppr

**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>&</sup>lt;sup>1</sup> as measured at the transducer without cable influences

Shaft diameter	ø8 mm		
Enclosure rating	IP 54 (IEC 60529)		
Max rotation speed	3000 rpm		
Shock	50 G, 11 ms up to 2500 ppr (IEC 60068-2-27)		
Vibration	10 G, 10 2000 Hz (IEC 60068-2-6)		
Starting torque (at +20°C / +68°F)	< 0,01 Nm (1,42 Ozin)		
Bearing stage material	EN-AW 2011 aluminum		
Housing material	PA66 glass fiber reinforced		
Shaft material	1.4305 / AISI 303 stainless steel		
Support material	EN-AW 2011 aluminum		
Wheel material	EN-AW 2011 aluminum		
Bearings	n.2 ball bearings		
Bearings life	10 <sup>9</sup> revolutions		
Operating temperature <sup>3, 4</sup>	-10° +70°C (+14° +158°F)		
Storage temperature⁴	-25° +70°C (-13° +158°F)		
Encoder + support weight	250 g (8,82 oz)		
Wheel weight	90 g (3,17 oz)		

## **RESOLUTIONS**

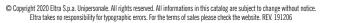
50\* - **100 - 200 -** 250 - 400 - **500 -** 512 - **1000 - 1024 -** 2000 - 2048 - 2500 - 4096 - 5000

\*available without zero pulse

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

CONNECTIONS		
Function	Cable C / P	Cable L/RS
+V DC	red	red
0 V	black	black
A+	green	green
A-	/	brown or grey
B+	yellow	yellow
B-	/	orange
Z+	blue	blue
Z-	/	white
÷	shield	shield









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 $<sup>^{\</sup>rm 2}$  for further details refer to OUTPUT LEVELS on TECHNICAL BASICS section

<sup>&</sup>lt;sup>3</sup> measured on the transducer flange

<sup>4</sup> condensation not allowed