

## RH 200 A / B / C **MFASURING WHFFIS**

## 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





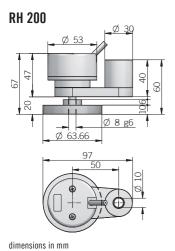




ORDERING CODE	RH200	A	500	S	5/28	P	8	X	3	PR	. XXX
200 mm measuring	MODEL wheel RH200										
	WHEEL S	SURFACE smooth A									
	k	nurled B									
		perized C t wheel /									
	n	RES pr from 50	OLUTION O to 5000								
			pulses list								
		٧	vithout zer	<b>RO PULSE</b> o pulse S							
			with zer	o pulse Z	R SUPPLY						
		(wit	h L electrica	ıl interface)	5 V DC 5						
					DC 5/28 Trical in	TERFACE					
					PN open c						
				1 5/001/	lin	e driver L					
		l	power sup	ply 5/28V	- output R		IAMETER				
							mm 8				
						ŀ	NCLOSUR	IP 54 X			
							MA	X ROTATIO			
										PUT TYPE	
		nr	eferred cab	le lengths 1	.5 / 2 / 3 / 5	/ 10 m. to	c be added af	able (stand			
		ρ.			,, 0, 0	,					VARIANT



custom version XXX



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		
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 (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

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

4 condensation not allowed		
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
В-	/	orange
Z+	blue	blue
Z-	/	white

shield

MECHANICAL SPECIFICATIONS				
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° revolutions			
Operating temperature <sup>3, 4</sup>	-10° +70°C (+14° +158°F)			
Storage temperature <sup>4</sup>	-25° +70°C (-13° +158°F)			
Encoder + support weight				
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



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shield

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