

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 1024 ppr
- · Power supply up to +30 V DC with several electrical interfaces available
- · Up to 105 kHz output frequency
- · Compact size
- · Cable output





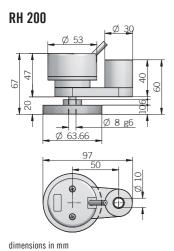




ORDERING CODE	RH200 A	500	S	5/28	P	8	X	3	PR	. XXX
	MODEL									
200 mm	measuring wheel RH200									
	WHEEL SURFACE									
	smooth A knurled B									
	rubberized C									
	without wheel /									
		SOLUTION								
	ppr from 5									
	refer to the available		RO PULSE							
		without zei								
			o pulse Z							
				SUPPLY						
	(WI	th L electrica		DC 5/28						
				TRICAL IN						
				PN open c	ollector C					
				pu	sh-pull P e driver L					
		power sup	nlv 5/28V -							
		portor oup	p., 0, 20 ·	output		IAMETER				
						mm 8				
					E	NCLOSUR				
							IP 54 X	N CDEED		
						IVIA	X ROTATIO	00 rpm 3		
							00		OUT TYPE	
								lard length	0,5 m) PR	
	р	referred cab	le lengths 1	,5/2/3/5	6 / 10 m, to	be added af	ter DIRECTI	ON TYPE (eg		
										VARIANT



custom version XXX



ELECTRICAL SPECIFICATIONS		
Resolution	from 50 to 1024 ppr	
Power supply ¹	$5 = 4.5 \dots 5.5 \text{ V DC}$ $5/28 = 4.5 \dots 30 \text{ V DC}$ (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 ²	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 similar)	
Max output frequency	105 kHz	
Counting direction	A leads B clockwise (shaft view)	
Electromagnetic compatibility	according to 2014/30/EU directive	
RoHS	according to 2011/65/EU directive	
UL / CSA	certificate n. E212495	

¹ as measured at the transducer without cable influences

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
B-	/	orange
Z+	blue	blue
Z-	/	white
÷	shield	shield

MECHANICAL SPECIFICATIONS		
Shaft diameter	ø8 mm	
Enclosure rating	IP 54 (IEC 60529)	
Max rotation speed	3000 rpm	
Shock	50 G, 11 ms (IEC 60068-2-27)	
Vibration	10 G, 10 2000 Hz (IEC 60068-2-6)	
Starting torque (at +20°C / +68°F)		
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	
Surface material	Smooth / Knurled = EN-AW 2011 aluminium Rubberized = Nitrile NBR 80 ± 5 Shore A	
Bearings	n.2 ball bearings	
Bearings life	10 ⁹ revolutions	
Operating temperature ^{3, 4}	-10° +70°C (+14° +158°F)	
Storage temperature ⁴	-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**

*available without zero pulse

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





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

³ measured on the transducer flange