

RH 200 A / B / C **MEASURING WHEELS**

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.

- \cdot 3 channel encoder (A / B / Z) up to 1024 ppr
- · Power supply up to +24 V DC with several electrical interfaces available
- · Up to 105 kHz output frequency
- Compact size
- · Cable output









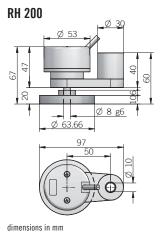


| ORDERING CODE | RH200 | A | 500 | S | 8/24 | Р | 8 | X | 3 | PR | . XXX |
|---------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------|-----------------|----------------------|-------------|-----------|---------|
| | MODEL 10 mm measuring wheel RH200 WHEEL SUR smo knur rubberi without w | RFACE ooth A Irled B rized C wheel / RES from 50 pulses a | OLUTION) to 1024 vailability ZER vithout zer with zer | O PULSE o pulse S o pulse Z Powers I interface) 8 24 V ELEC | SUPPLY 5 V DC 5 1 DC 8/24 TRICAL IN PN open c | ITERFACE OISH-pull P e driver L SHAFT D | IAMETER mm 8 | | 3 | PR | . XXX |
| | | | | | | | | IP 54 X X Rotatio | N SPFFD | | |
| | | | | | | | 1111 | | 00 rpm 3 | PUT TYPE | |
| | | pre | oforrad cabl | e lengths 1, | 5/2/3/ | 5 / 10 m +o | | able (stand | dard length | 0,5 m) PR | |
| | | pic | | o longtila 1, | ,0,2,0,0 | , , 10 III, to | oc added di | tor DINEOTI | | | VARIANT |



custom version XXX





| ELECTRICAL SPECIFICATIONS | | |
|----------------------------------|--------------------------------------------------------------------------------------|--|
| Resolution | from 50 to 1024 ppr | |
| Power supply | 5 = 4,5 5,5 V DC 8/24 = 7,6 25,2 V DC | |
| Current consumption without load | | |
| Max load current | C / P = 50 mA / channel L = 20 mA / channel | |
| Output type* | NPN open collector (pull-up max +30V DC) push-pull line driver HTL (AEIC-7272) | |
| 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 * for further details please see OUTPUT LEVELS under TECHNICAL BASICS section

RESOLUTIONS

50* - **100** - **200** - 250 - 400 - **500** - 512 - **1000** - **1024**

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

| CONNECTIONS | | | | | |
|-------------|----------------|------------|--|--|--|
| Function | Cable C / P | Cable L | | | |
| +V DC | red | red | | | |
| 0 V | black | black | | | |
| Ch. A | green | green | | | |
| Ch. A- | / | brown | | | |
| Ch. B | yellow | yellow | | | |
| Ch. B- | / | orange | | | |
| Ch. Z | blue | blue | | | |
| Ch. Z- | / | white | | | |
| <u></u> | shield | 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 | 2 ball bearings | |
| Bearings life | 10 ⁹ revolutions | |
| Operating temperature | -10° +70°C (+14° +158°F) | |
| Storage temperature | -25° +70°C (-13° +158°F) | |
| Encoder + support weight | | |
| Wheel weight | 90 g (3,17 oz) | |



^{*}available without zero pulse