UNI EN ISO 9001

RH200A / B / C
RH-RM500A / B / C
Metric wheels series

Metric wheels

Eltra metric wheels were studied for the industrial application, where the linear movement read are required (eg. continuous cutting machines of sheet metal, of wood, of textiles, of glass, etc). These wheels were studied to have a very precise reading and a high resistance to the stress which is typical of these machines. The body, entirely in aluminum, is assembled using an oscillating arm which is pivoted on the axial compact autolubrificant box which assure a long period of operation without any maintenance.The weight of the metric wheel maintains constantly the adherence with the material to be measured allowing the length and the speed to be read.
The external surface of the wheel can be in aluminium with crossed knurl or in special anti-oil and anti-slip rubber.

Ordering codes

In case of particular Customer variant seperate with a full stop

RH 200 A 500 Z 5 N 8 X 3 P R . XXX

RH = support RH200 - 500
RM = support RM500

200 = wheel linear develop 200 mm
500 = wheel linear develop 500 mm

A = smooth
B = knurled
C = rubberized
Type of wheel

from **1** to **10000** imp./turn RM500 series
from **40** to **1024** imp./turn RH200 / 500 series
Resolutions
N.B.: For impulse availability contact directly our offices

S = without zero impulse
Z = with zero impulse
Zero impulse

5 ÷ 28 = power supply RM500 series **Encoder powers supply (Vdc)**
5 / 8 ÷ 24 = power supply RH200 / 500 series
N.B.: LINE DRIVER available only with 5 Vdc or 8 ÷ 24 Vdc power supply

N = NPN
C = NPN OPEN COLLECTOR
P = PUSH PULL
L = LINE DRIVER
Electronic output configuration
N.B.: For the optionals on output configurations see the output incremental connection card

8 = ø 8 mm RH200
10 = ø 10 mm RH - RM500
Shaft diameter

X = standard IP54 RH200
standard IP64 RH - RM500
S = optional IP66 / IP67 only RH-RM500
Protection

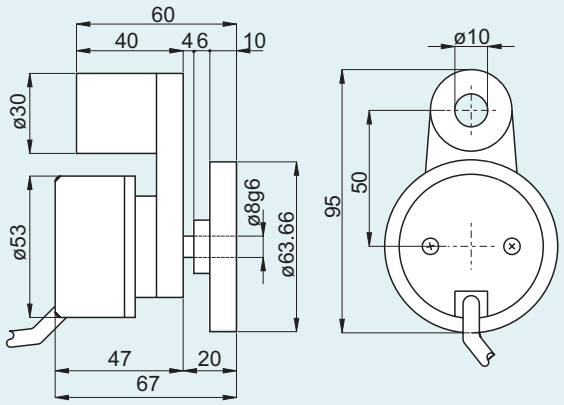
3 = 3000
R.P.M.

P = standard output cable 1.5 m
M = connector MS3106E 16S-1S or 18-1S
J = connector JMSP 1607 F or 1610 F
N.B.: Connectors M and J are available only for the metric wheels series RH-RM500

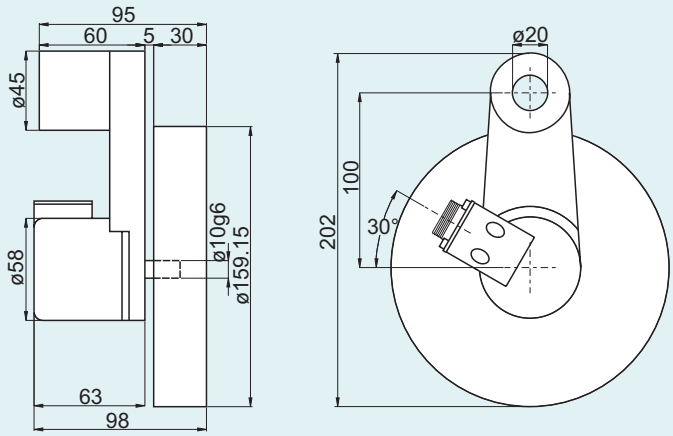
R = radial
A = axial

XXX = Particular Customer variants indicated by a progressive number from 001 to 999

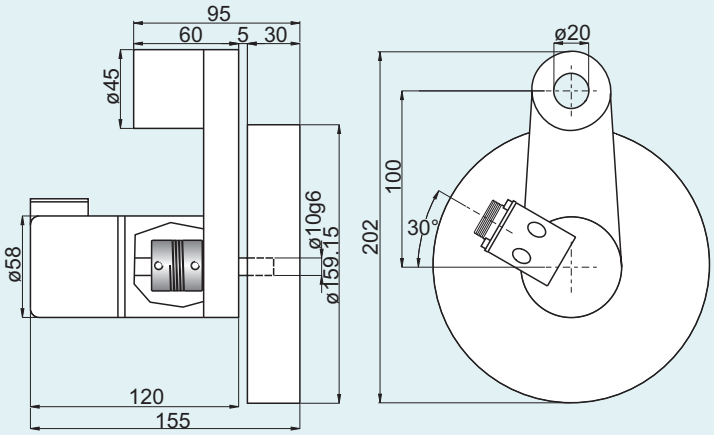
RH200



RH500



RM500



Electronic Characteristics RM500 Series

Resolutions	from 1 to 10000 impulses / turn
Power supply	5 ÷ 28 Vdc N.B.: LINE DRIVER only with 5 / 8 ÷ 24 Vdc power supply
Consumption without load	80 mA
Max output current	50 mA per channel 20 mA per channel with LINE DRIVER
Electronic output configuration	NPN / NPN OPEN COLLECTOR / PUSH PULL / LINE DRIVER
Max output frequency	Max 300 KHz **F=** $\frac{\text{RPM x Resolutions}}{60}$

Electronic Characteristics RH200 Series

Resolutions	from 40 to 1024 impulses / turn
Power supply	5 Vdc / 8 ÷ 24 Vdc N.B.: LINE DRIVER only with 5 / 8 ÷ 24 Vdc power supply
Consumption without load	50 mA bidirectional 100 mA bidirectional with zero
Max output current	50 mA per channel 20 mA per channel with LINE DRIVER
Electronic output configuration	NPN / NPN OPEN COLLECTOR / PUSH PULL / LINE DRIVER
Max output frequency	Max 100 KHz **F=** $\frac{\text{RPM x Resolutions}}{60}$

Mechanical Characteristics

Shaft diameter (mm)	ø8 g6 RH200 ø10 g6 RH - RM500
Protections	IP54 standard for RH200 IP64 for RH-RM500 IP66 / IP67 optional only for RH-RM500
R.P.M. Max	3000 continuous
Shock	50 G per 11 msec (with flexable disc) 20 G per 11 msec (with glass disc)
Vibrations	10G 10 ÷ 2000 Hz
Bearings life	10^9 revolutions
Bearings	N°2 ball bearings + n°2 ball bearings on the support for RM500
Shaft material	Stainless steel AISI303
Body material	Aluminium UNI5076
Support material	Aluminium UNI 9002/5 painted
Wheel material	Aluminium UNI 9002/5 per Sv.200 Aluminum UNI 3051 per Sv.500
Operating temperature	0° ÷ +60°C
Storage temperature	-25° ÷ +70°C
Weight of encoder + support	~ 250g RH200 ~ 1000g RM500
Wheel weight	~ 100g per Sv.200 ~ 800g per Sv.500

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IN130GB2 -2000 edition