HR series

Infinite wheel Encoder • non contacting
Hall effect technology • 24 positions

DISTINCTIVE FEATURES

Infinite wheel Encoder

Above 1 Million cycles

Backlighting option

Electronics sealed to IP68

360° roller

ENVIRONMENTAL SPECIFICATIONS

• Operating Temperature: -30 °C to +70 °C (-22 °F to +158 °F)

• Storage Temperature: -40 °C to +85 °C (-40 °F to +185 °F°)

• Electronics sealed to IP68 according IEC 60529

• Shock resistance: 50 g during 11 ms

• Salt spray: IEC 60068-2-11 test Ka

ELECTRICAL SPECIFICATIONS

• Supply Voltage Range: 5 VDC ± 0.50 VDC

• Resolution: 128pulses per revolution – could be modified with
  programming Manchester code on Man_Out Wire

• Reverse Polarity Max: -40 VDC max

• Overvoltage Max: 40 V

• Consumption: 11 mA max

• LED supply: 6 VDC 10 mA

GENERAL SPECIFICATIONS

• APEM SAS patented design

• Operating Force between position: 2.5 N ± 0.5N (with 24 positions)

• Expected Life: 1 000 000 lifecycles

• Mass/Weight: 11 g ±2 g (0.4 oz ± 0.07 oz)

The company reserves the right to change specifications without notice.

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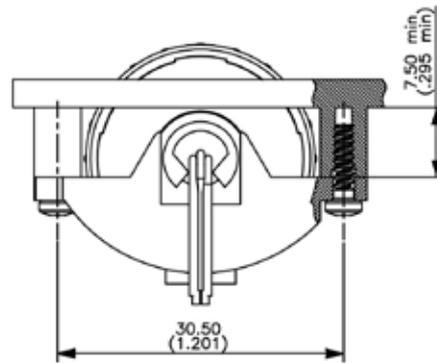Hall effect technology • 24 positions

MATERIALS

- Body: Polyamide
- Wheel: Polyamide
- Electronics sealing: epoxy
- Connector: polyester (Molex 510210700)
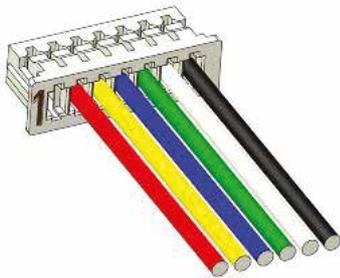- Multiwire lead AWG28, length 140 mm

MOUNTING

CONNECTIONS

WITHOUT BACKLIGHTING

PIN	FUNCTION	COLOR
1	Power supply: +VDC 5 V	Red
2	Man-Out	Brown
3	Out_B	Blue
4	Out_A	Yellow
5	Out_Z	White
6		
7	Ground 0V	Black

WITH BACKLIGHTING

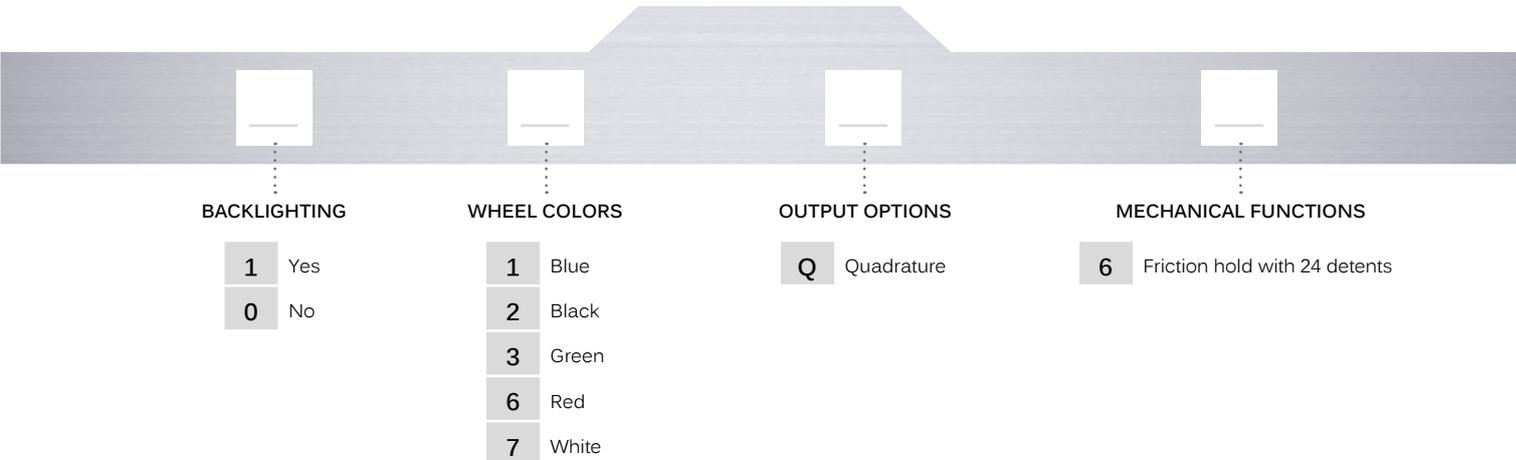| PIN	FUNCTION	COLOR
1	Power supply: +VDC 5 V	Red
2	Man_Out	Brown
3	Out_B	Blue
4	Out_A	Yellow
5	Out_Z	White
6	LED-	Green
7	Ground 0V	Black

Wiring harness with multiwire leads
AWG28 - Length 140mm (5.51in)

OUTPUT

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BUILD YOUR PART NUMBER

HR

SERIES

ACTUATOR

W	360 Wheel

MOUNTING OPTIONS

2	Rear

BACKLIGHTING

1	Yes
0	No

WHEEL COLORS

1	Blue
2	Black
3	Green
6	Red
7	White

OUTPUT OPTIONS

Q	Quadrature

MECHANICAL FUNCTIONS

6	Friction hold with 24 detents
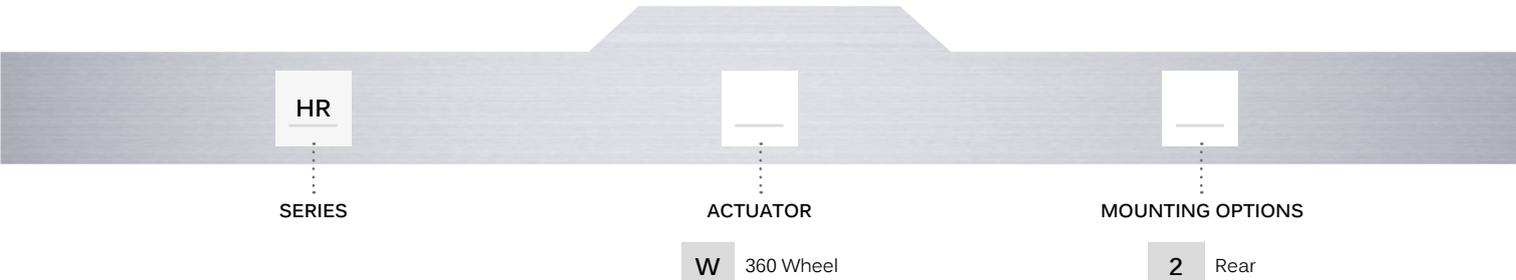
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INFINITE WHEEL