



Industrial Encoders
Direct Ltd

MWC SERIES Integral Measuring Wheel Encoder

Common Applications

Web Tension Control, Paper Monitoring, Glue Dispensing, Linear Material Monitoring, Conveyor Systems, Printing, Labelling, Document Handling



The MWA Series is a rather clever Measuring Wheel incorporating an encoder and spring mounting assembly system in one simple to install unit. It is truly a unique versatile solution for tracking velocity, position, or distance directly placed on a wide variety of surfaces.

The MWA's spring-loaded torsion arm provides a simple-to-adjust torsion load, allowing the measuring wheel to be mounted in any orientation, even upside-down. The threaded shaft on the pivot axis is field reversible providing mounting access from either side.

The whole system is encased in a durable, conductive composite material that eliminates static build up. With operating speeds up to 3000 feet per minute and a wide variety of configuration options, it's easy to see why the MWA Series is the ideal solution for countless applications.

Features

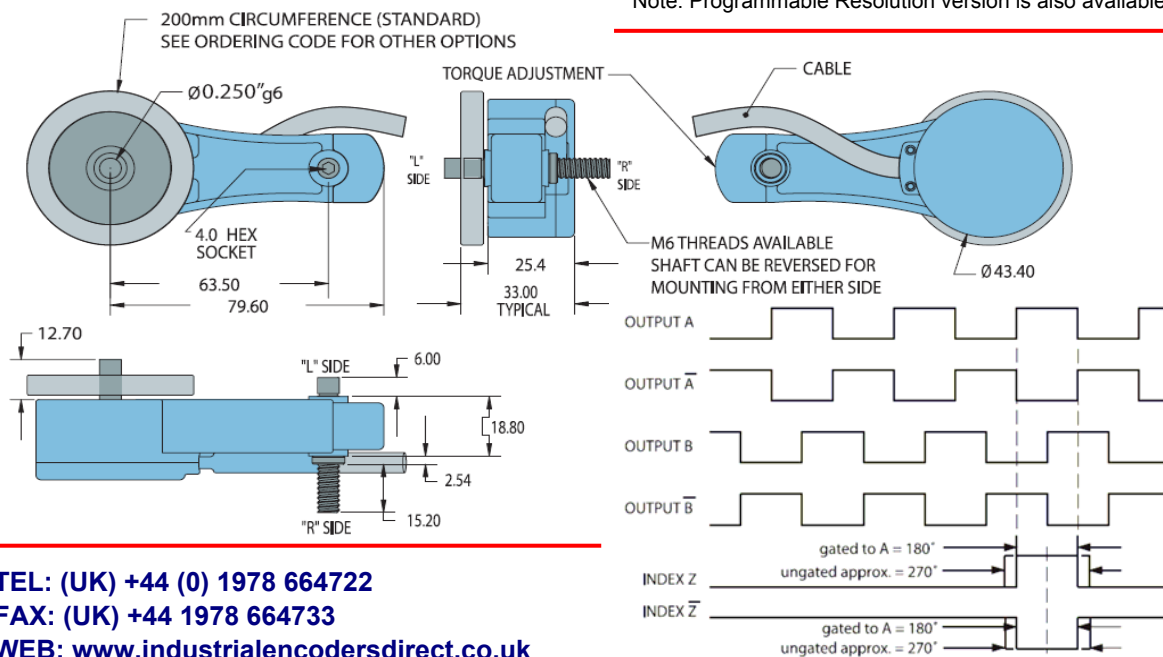
- Measuring Wheel with Integral Encoder
- Integrated Spring Loaded Torsion Arm
- Orientation - Vertical, Horizontal, or even Upside-Down
- Operates on a wide variety of surfaces, at very high speeds

Resolutions Available

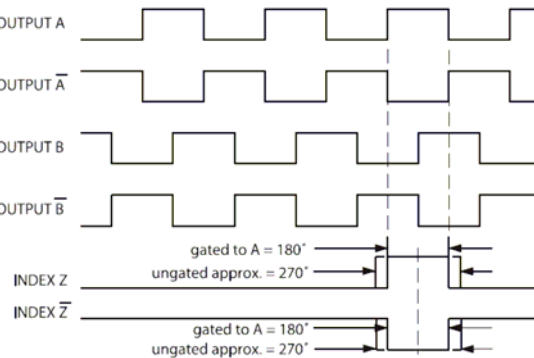
(Pulses Per Revolution)

200, 250, 254, 256, 300, 360, 400, 500 0512
600 720 800 840 1000, 1024, 1200, 1220,
1250, 1270, 1500, 1800, 2000, 2048, 2500,
2540, 3000, 4096, 6000, 8192, 10000

Note: Programmable Resolution version is also available



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MWC SERIES

Integral Measuring Wheel Encoder

Ordering Code



Specifications

Supply Voltage
4.75V to 24VDC

Body:
Durable conductive composite material

Cover:
Durable conductive composite material

Shaft:
Stainless Steel

Bearings:
Sealed Ball Race

Cable: Screened

Protection:
IP50 or IP64 Options Available

Max. Shaft Loading:
Axial: 2.5Kg ; Radial: 2.5Kg
(Exp. Life: 1.2×10^{10} revolutions @ 1.25Kg Loading)

Operating Temperature:
Up to -40 to +100°C (Depending on model)

Storage Temperature:
As above (Depending on Model)

Maximum Speed:
6000 RPM

Starting Torque:

IP50 Rated: 0.03531 Ncm
IP64 Rated: 0.2825 Ncm

Vibration:

10g @ 58 to 500Hz

Shock:

80g @ 11ms duration

Humidity:

98% RH (non-condensing)

Cable:

Screened, oil and salt water proof

Impulse Frequency:

200KHz (Max)

Current Consumption:

65mA (Maximum - without load)

Noise Immunity:

BS EN61000-6-2; BS EN50081-2; BS EN61000-4-2; BS EN61000-4-3; BS EN61000-4-6; BS EN55011

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