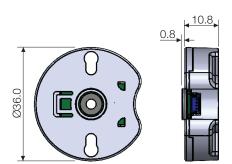
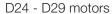
# Control of DC Motors

Incremental Encoder (Hall Effect)

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Units: mm

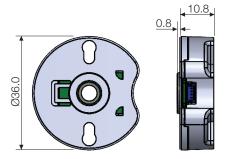




D36 motors

The incremental encoder is available across our modular range of brushed and brushless dc motors and gearboxes. The encoder offers 8 ppr in single or dual channel configurations.

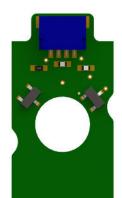
A magnetic design based around a pair of hall effect sensors, the encoder can successfully operate over a wide range of temperatures. The encoder can directly drive TTL logic.



D45 motors

#### **General Specification**

Number of Channels 1 or 2
Pulses per Channel per Motor rev. 8
Output TTL
Supply Voltage 5 Vdc ±10%
Frequency Range up to 20Khz
Operating Temperature -40 to +80°C
Max motor speed 15,000rpm



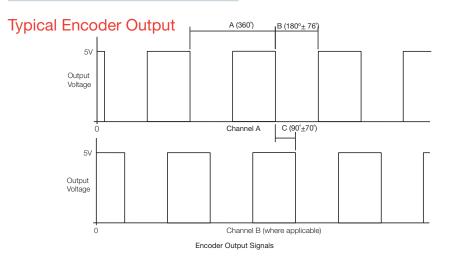
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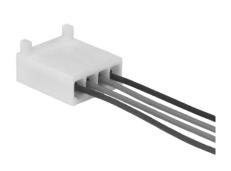
# Control of DC Motors

Incremental Encoder (Hall Effect)

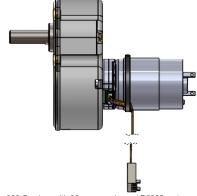
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# **Typical Applications**



330 Gearbox with 28mm encoder and D2938 motor

## Connector Pin Sequence

+5V	Pin 1
Channel A	Pin 2
Channel B (where applicable)	Pin 3
Ground	Pin 4

### Wiring Colour Code

Channel B (where applicable)  Ground  Orange  Blue	+5V Channel A	Brown Yellow
	Channel B (where applicable)	Orange

(For stock 300mm wiring loom)

#### **EMC Information**

The encoder has met and exceeded the pre-compliance EMC tests for emission and immunity to:

- EN55022 Radiated emissions, Class A residential
- EN61000-4-3 Radiated immunity, Level 3 (10V/m)
- EN 61000-4-6 Conducted Radio Frequency (RF) immunity, Level 3 (10V/m) 150kHz to 80MHz
- Fast transient burst, tested at 500V, 1kV and 2kV

### Contact: www.rotalink.com info@rotalink.com

Rotalink Limited Cropmead, Crewkerne Somerset TA18 7HQ, UK

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