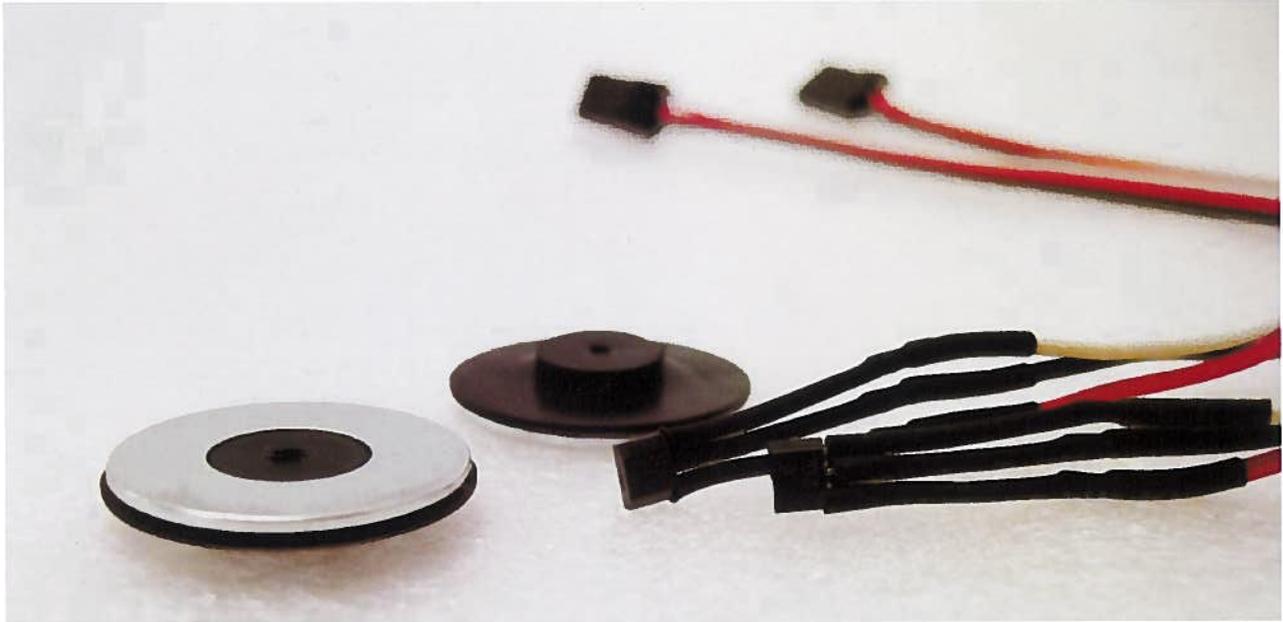# Simple Encoder Kit

The simple encoder kit from DAGU consists of two neodymium 8-pole magnets with rubber hubs and two hall-effect sensors terminated with 150mm (6inch) cable and 3 pin female servo headers.

The magnets have 4 north poles and 4 south poles and are strong enough that the sensor can detect the poles from more than 3mm (1/8inch). This means that the sensors do not need to be precisely mounted to detect the poles. The rubber hubs will press fit over most small motor and drive shafts used in low power gearboxes. A small screw may also be used to attach the magnets in some cases.

The hall-effect sensors will work on voltages from 3V to 24V and include reverse polarity protection. The open drain output, when fitted with an external pullup resistor will drive any logic circuit from 3V to 24V and can also drive a LED or any other small load less than 25mA.
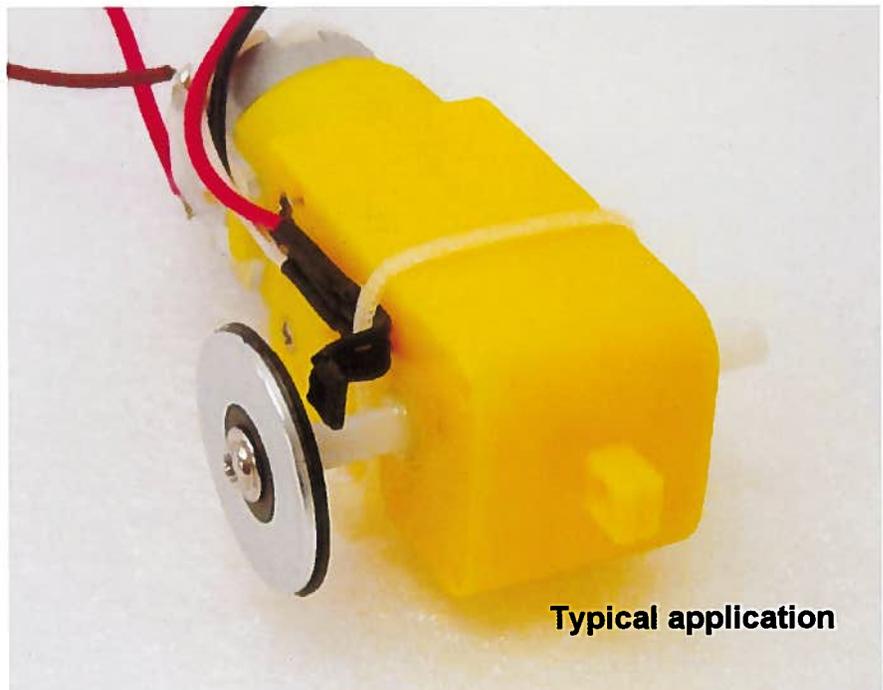
These sensors can plug directly into any DAGU, Arduino compatible controller and use the processors internal pullup resistors eliminating the need for any external components or wiring.

Specifications:
Supply voltage: 3V-24V
Supply current: 4mA per sensor
Output voltage: 26V maximum
Output current: 25mA continuous
Output type: Open drain

Wiring:
White wire: Output
Red wire: +3V to 24V
Black wire: Ground (0V)

Typical application

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