

Penny + Giles announces a new **dual output**, **no-contact** rotary position sensor with the slimmest low profile housing, which uses a factory programmable Hall effect sensor system.

NRH280DP has a co-moulded fully encapsulated sensor system that can withstand high shock and vibration as well as operate up to 170°C, and endure high pressure wash-downs (IP69K). The sensor is activated by a separate magnet with a choice of two carrier designs.

NRH280DP is designed for applications in extreme environments where space is limited. It also allows up to ±2mm radial offset, with a permissible gap of 2-7mm between the sensor and magnet. The transmissive properties between the magnet and sensor also allow operation through non-magnetic materials.

The **NRH280DP** operates from 5Vdc (and 9-30Vdc) and is factory programmed to allow a wide range of configurations.

- NO-CONTACT technology with external position magnet
- Unlimited mechanical lifetime WEAR FREE
- Will operate from -40 to +140°C, with excursions to +170°C
- Withstands high pressure wash-downs (IP69K)
- Simple mounting and extremely low (6.5mm) profile design
- Minimal weight
- Magnet radial offset up to ±2mm, air gap 2-7mm
- Extremely low signal noise less than 1mV_{rms}
- Electrically interchangeable with potentiometers
- Standard output is dual channel
- Configurable output direction
- Measurement range from 20 to 360° in 1° increments
- 12 bit resolution (0.025%) over the angular range
- Independent linearity ±0.4%
- Analogue (0.5 4.5 or 0.1 4.9Vdc) or PWM outputs
- 2.5 or 0.15mS input/output delay

Please discuss your application with our sales engineers – in addition to this model, we also offer a dual redundant (separate input/output) version (NRH280DR) and custom engineered designs for OEMs.



NRH280DP DUAL OUTPUT NO CONTACT POSITION SENSOR

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