

NOVOHALL
Rotary Sensor
touchless technology
transmissive

Series RFD-4000



Special features

- fully touchless - no shaft or seals to wear
- measure directly through any non-ferromagnetic material
- electrical range up to 360°
- linearity $\pm 0.5\%$
- simple mounting
- lateral magnet offset up to ± 1.5 mm
- protection class IP67, IP68, IP69
- single and redundant versions
- unlimited mechanical lifetime
- resolution 12 bit
- excellent price/performance ratio
- extremely flat 7 mm design

The RFD-4000 utilizes a separate magnet or magnetic position marker, attached to the rotating shaft to be measured.

The orientation of the magnetic field is measured and an analog voltage representing the angle is the output signal.

The very compact physical dimensions allows installation in small spaces. The housing is made of high grade temperature-resistant plastic material. The sensor is sealed and is not sensitive to dust, dirt, or moisture.

The two-part design, with the RFD sensor itself, and its magnetic position marker, offers great flexibility when mounting. The absence of shaft and bearing makes the assembly much less sensitive to axial and radial application tolerances. Measurements can be made transmissively through any nonferromagnetic material.

Electrical connection is made via lead wires.

Description	
Housing	high grade, temperature resistant plastic, Thermoplast with brass inserts
Electrical connections	lead wires 3 x 0.5 m (0.5 mm ²) single lead wires 4 x 0.5 m (0.5 mm ²) partly redundant lead wires 6 x 0.5 m (0.5 mm ²), fully redundant