



## R60D

### DC Operated Rotary Variable Inductance Transducer

#### SPECIFICATIONS

- ◆ Lower cost than RVDTs
- ◆ Bipolar DC operation
- ◆  $\pm 60$  degree sensing range
- ◆ High level VDC output
- ◆ Light-weight
- ◆ Non-contact electrical design
- ◆ Size 11 servo mount
- ◆ Anodized aluminum housing

The **R60D** RVIT (Rotary Variable Inductance Transducer) is a DC operated non-contact angular position sensor. Operating on a  $\pm 15$ VDC supply, the R60D provides a smooth  $\pm 7.5$ VDC output proportional to angular position over a  $\pm 60$  degree sensing range.

The RVIT proprietary design utilizes a set of four printed circuit coils and a light-weight conductive spoiler to achieve superior performance with a low moment of inertia. During operation, the light weight spoiler rotates with the transducer shaft, differentially altering the inductance of the printed circuit planar coils. The resulting unbalance is precisely measured using a patented autoplex circuit. This signal is then converted to a linear DC output voltage, proportional to the angle of the rotor shaft. The digital circuit is extremely resistant to environmental disturbances such as EMI and RFI, and is compatible for use with most analog position feedback systems.

Calibrated for use over the full  $\pm 60$  degree sensing range, the R60D offers exceptional performance at a cost effective price. It also features a wide operating temperature range, infinite resolution, and an extremely long rotational cycle life.

#### FEATURES

- ◆ Wide temperature range
- ◆  $\pm 7.5$ VDC output
- ◆ Internal voltage regulation
- ◆ Low moment of inertia
- ◆ Shielded ABEC 3 precision bearings
- ◆ Rugged aluminum housing

#### APPLICATIONS

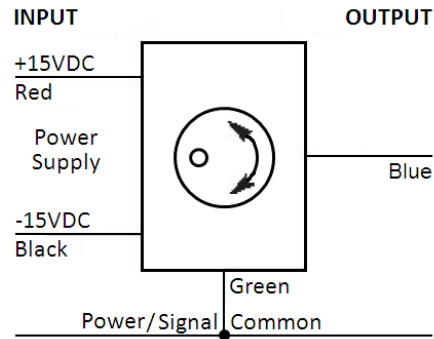
- ◆ Ball valve position
- ◆ Throttle level position feedback
- ◆ Rotary actuator feedback
- ◆ Dancer arm position
- ◆ Reeler / Dereeler



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DC Operated Rotary Variable Inductance Transducer

## WIRING INFORMATION



## ORDERING INFORMATION

Description	Model	Part Number
RVIT $\pm 60^\circ$	R60D	02192500-060
<b>ACCESSORIES</b>		
R-FLEX multipurpose coupling kit	R-FLEX	66530072-000
Dual rail DC power supply ( $\pm 15\text{VDC}$ )	PSD 40-15	02291339-000

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