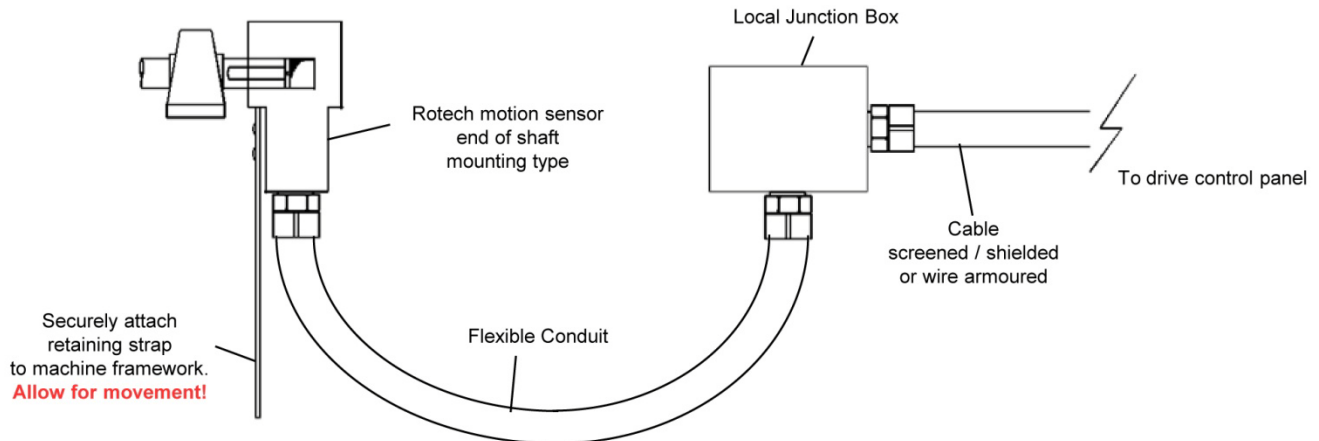


# Rotech Encoder Installation

BETTER BY DESIGN



## Installation -

1. Drill & tap end of shaft to be monitored (refer to "Mag-con" data sheet for magnetic connector usage)
2. Remove rear cover plate from Rotech
3. Install Rotech to end of shaft using socket cap bolt provided. Ensure bolt does not 'bottom' in tapped hole, slippage may occur if shaft faces are not firmly in contact
4. Refit rear cover plate to Rotech
5. If fitted, secure flexible restraining strap to convenient point on machine
6. Cable as per drawing above
7. Refer to appropriate Rotech data sheet for output type connections

## Commissioning & Testing -

Important - All wiring must be in accordance with local and national electrical codes and should only be undertaken by an experienced and professional qualified electrician.

All disconnections and connections must be made with the power supply switched off.

To test the Rotech unit it must be connected to its power source and associated control circuit i.e. speed relay, PLC, computer, etc. and power must be switched on.

## Rotech Sensor Output Type VA, VB & VC -

- Connect a 0 - 30 VDC voltmeter between brown and blue connections
- Voltmeter should indicate D.C. Supply voltage of between 10 - 30 VDC
- Now connect the voltmeter between the black and blue connections
- Rotate Rotech unit very slowly, voltmeter should indicate on/off pulses between 0 VDC and the nominal supply voltage (supply voltage minus 1 to 2 VDC)

## Rotech Sensor Type VN -

- Connect a 0 - 10 mA multi meter in series with the blue wire connecting the Rotech unit to its control circuit
- Rotate the Rotech unit very slowly, multi meter should indicate on / off pulses of less than 1 mA to greater than 3 mA (See Notes Below)

## Rotech Sensor Type VE (AC operation) -

- Connect a 0 - 240 VAC voltmeter between the brown connection and 0 VAC, verify the supply voltage is present
- Now connect the voltmeter between the blue connection and 0 VAC
- Rotate the Rotech unit very slowly, the voltmeter should indicate on / off pulses of between 0 V and the supply voltage (See Notes Below)

## NOTES:

- At higher speeds the meter will not respond quickly enough to the on / off pulses. It will display an average value between the max and min levels.
- The number of on / off pulses for one complete revolution should be the same as detailed in the datasheet i.e. 1, 10, 120, 360, 500 etc.

Please refer to instruction manual for correct installation.  
Information subject to change or correction. Dec. 2010