

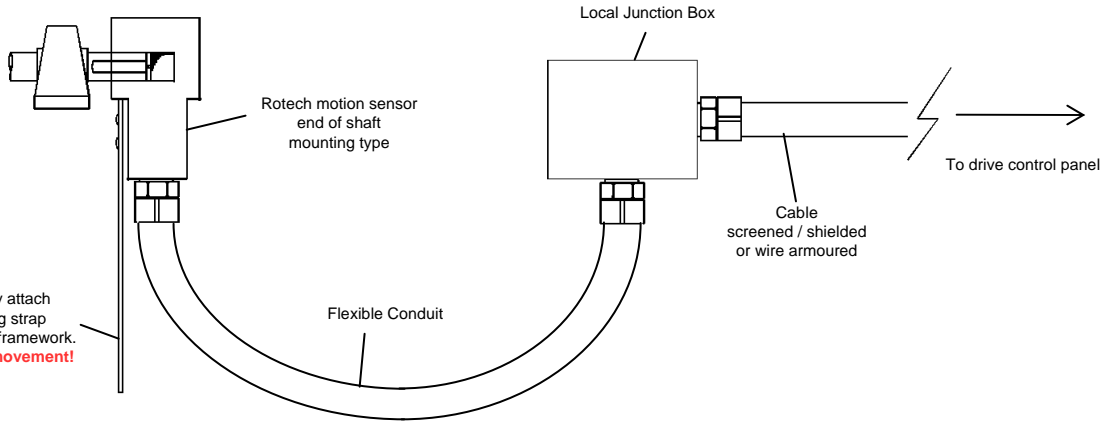
# Commissioning & Testing

## End of Shaft Mounted Encoders



ROTECH FOR RELIABILITY!

*Why Accept Anything Less?*



### 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.

#### RECOMMENDED:

**APPLY A SUITABLE THREAD LOCKING ADHESIVE TO THE THREADS PRIOR TO INSTALLATION (LOCTITE OR SIMILAR)**

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 it's power source and associated control circuit I.E. "Rotech" speed relay, plc, Computer, etc. And for power to be switched on.

#### Rotech sensor output type E, E2, E3

Connect a 0 to 30vdc voltmeter between brown and blue connections  
Voltmeter should indicate D.C. Supply voltage of between 10 and 30vdc  
Now Connect the voltmeter between the black and blue connections.  
Rotate Rotech unit very slowly, voltmeter should indicate on/off pulses between 0vdc and the nominal Supply Voltage (Supply Voltage Minus 1 To 2 Vdc)

#### Rotech sensor type N

Connect a 0 to 10ma Multimeter in series with the blue wire connecting the Rotech unit to it's control circuit  
rotate the Rotech unit very slowly, Multimeter should indicate on / off pulses of less than 1ma to greater than 3ma.  
See note \* 1 below

#### Rotech sensor type W

Connect a 0 to 240vac 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 0v and the supply voltage.  
See note \* 1 below

#### Note \* 1

- \* 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 Rotech Product data sheets I.E. 1,10,120,360,500 etc.