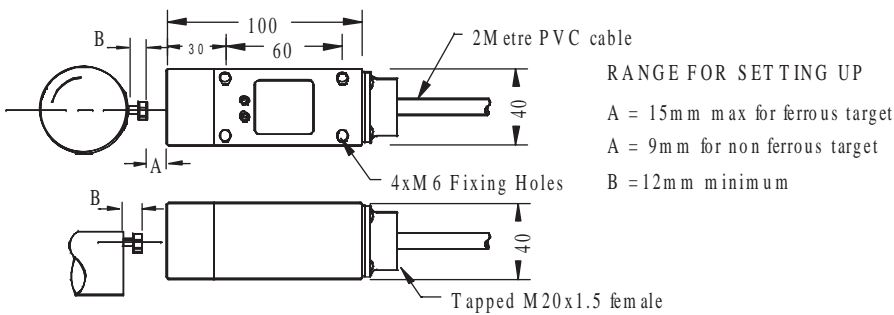


**DIMENSIONS**



**PROGRAMMABLE VERSION  
 PU1DR**

The Rotamatic underspeed monitor is a robust fully encapsulated, microprocessor controlled, self contained underspeed detector, capable of operating over a wide speed range, for monitoring shaft rotation and detecting underspeed. It is ideal for monitoring the rotation of conveyors, elevators, fans, grinders, mixers and numerous other industrial applications.

The unit incorporates a proximity sensor which can detect a metal protrusion on the shaft being monitored. This may be an existing key or a device attached for detection purposes.

Calibration is carried out automatically simply by applying a magnet to the calibration point, while the

shaft is rotating at the correct speed. The unit will automatically measure the speed and self calibrate to trip at 20% below set speed.

The calibrate magnet is also used to set a start up delay adjustable between zero and 30 seconds.

The Rotamatic operates on virtually any power supply.

- ✱ **Microprocessor Controlled**
- ✱ **Automatic Calibration over speed ranges from 10 P.P.M to 3,600 P.P.M**
- ✱ **No Contact with Rotating Shaft, No Moving Parts.**
- ✱ **Universal Voltage Operation.**
- ✱ **Adjustable Start-up Delay**
- ✱ **Fully Encapsulated and Sealed to IP67**

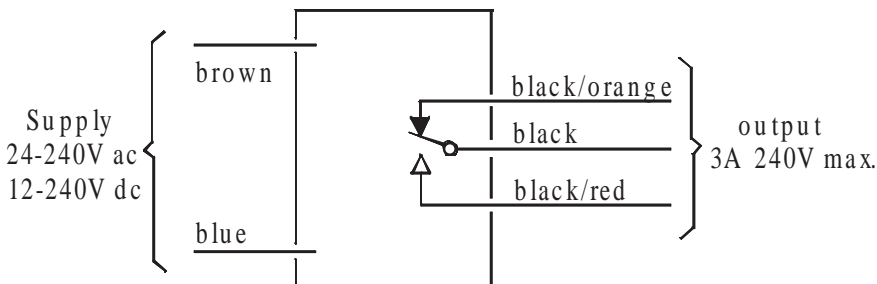
# SPECIFICATION

<b>SUPPLY</b>	24 - 240V ac, 12 - 240V dc.
<b>CURRENT CONSUMPTION</b>	50mA max.
<b>OPERATING TEMPERATURE</b>	-40 to +70°C.
<b>OPERATING SPEED</b>	10 - 3,600 Pulses per Minute.
<b>ENCLOSURE</b>	Polycarbonate/ABS Blend
<b>PROTECTION</b>	IP66
<b>REPEAT ACCURACY</b>	Better than 2% of working speed over entire range.
<b>OUTPUT</b>	Voltage free single pole relay contact rated 3A 240V ac non inductive.
<b>OUTPUT STATE</b>	Relay normally energised with shaft rotating at correct speed (fail safe).
<b>START-UP DELAY</b>	Programmable delay 0-30 seconds, initiated by application of supply.
<b>TERMINATION</b>	Supplied with 2 metres PVC cable.
<b>CABLE ENTRY</b>	Metal conduit gland tapped 20mm
<b>LED INDICATION</b>	LED indication of input pulses and output relay energised.
<b>WEIGHT</b>	350 gms.
<b>CALIBRATION</b>	Automatic calibration by applying a magnet (supplied) to a calibration point.
<b>SENSING RANGE</b>	15mm max - ferrous target.
<b>TARGET</b>	Metal protrusion, (ideally min 30mm diameter).

## HOW TO ORDER:-

SPECIFY ROTAMATIC TYPE PU1DR (No need to state supply voltage or speed range).

## CONNECTIONS



Detection & Control  
in action