

Speed monitor series 6000

This device is used to control and monitor the movement of a moving object, such as a conveyor belt. The speed monitor can be used in two modes:

- Over Speed
- Under Speed

Device Operation

The sensor connected to this device receives pulses proportional to the speed of the moving object and transmits them to the speed monitor. The frequency of these pulses is compared with the set value of the device, and if they do not match, the speed monitor's output changes state.

Over Speed Mode

If the speed of the moving object exceeds the set speed, the output relay will switch off.

Under Speed Mode

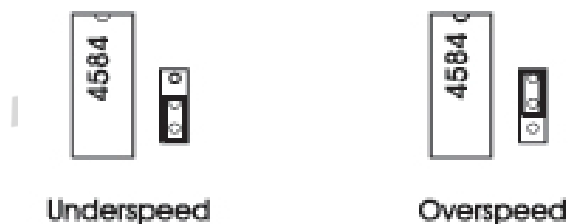
If the speed of the moving object is below the set speed, the output relay will switch off.

The figure below shows the performance curve of the speed monitor in under speed mode:

Note

When the speed monitor starts operating in under speed mode, the output relay initially remains in the on state for a duration of T_d seconds. The T_d value can be adjusted using a potentiometer on the panel, ranging from 0 to 45 seconds.

To switch the operation to over speed mode, change the jumper position as shown in the figure below.



Speed Setting Range

The speed setting range is available in three different modes as follows:

Selector	Speed range
X1	6-60 RPM
X10	60-600 RPM
X100	600-6000 RPM

Speed Monitor Indicators

- Red LED: Indicates input pulses.
- Green LED: Indicates the status of the output relay.

