

Zero Speed Switch

Working Principle :-

The speed of rotating object is sensed by a non-contact Inductive type sensor .The sensor probe is installed with it's sensing face in the close vicinity of rotating object .When these flags pass across the face of the probe ,the frontally radiated electromagnetic field of the probe is damped which is converted to a corresponding output pulse.

These pulses are digital in nature & when speed switch detects change in speed ,a signal is sent to a monitoring relay. This device actuates relay contacts at preset speed .Using these contacts desired control action such as zero speed protection ,under speed protection ,over speed protection can be achieved.

Additional features like Initial by-pass time delay, Nuisance tripping time delay shall be provided.

Applications :- Monitor speed of conveyors ,crushers, rolling Mills ,agitators ,mixers, stirrers, screw conveyors & others industrial machinery.

Advantages :-

- 1.Built in nuisance tripping time delay as well as initial by-pass time delay .
2. Speed range 1 – 5000 RPM in optional ranges .
- 3.Intrinsically safe sensors & speed switches with flame proof enclosures are available for use in Hazardous Area.
- 4.No wear & tear as non- contact type sensing.