

The Model RMS non-contact motion control will provide accurate and reliable speed sensing of rotating shafts and machinery. Choose a NEMA 4 polycarbonate enclosed controller, then choose a sensor, and a matching mounting bracket and target disk. Each sensor comes with 6 feet of cable, will need to field splice for longer lengths. It will produce an output signal at a predetermined speed which may be either underspeed or overspeed. Solid state electronics and analog technology make this one of the most advanced and versatile motion detectors available. The Model RMS protects all valuable rotating equipment including belt conveyors, bucket elevators, rotary feeders, or screw conveyors.

HOW IT WORKS

The Model RMS uses a remote mounted inductive sensor to monitor speed. Motion is sensed by means of induced measurable pulses produced by a ferrous metal target rotating past the sensor. If a distinctive metal target is not available an optional metal disk can be purchased. The produced pulses are converted to a digital electronic signal. Solid state circuitry within the DIN rail mount box then analyzes the digital signal and activates or deactivates the output relay at the pre-set speed point.



as a motor starter and a signal light.

SPECIFICATIONS

MECHANICAL SPECIFICATIONS:

ENCLOSURE: Polycarbonate **NEMA 4 & 4X** MEETS: WEIGHT: .75 lbs. SIZF: 3" x 21/4" x 41/4"

ELECTRICAL SPECIFICATIONS:

INPUT VOLTAGE: RMS-1G; 105-135 volts A.C., 50-60Hz.

RMS-2G; 210-250 volts A.C., 50/60 Hz.

RMS-3G; 24V AC/DC

OUTPUT: DP/DT relay 5 Amp. Resistive at 120 volts A.C.

DP/DT relay 5 Amp. Resistive at 240 volts A.C. DP/DT relay 5 Amp. Resistive at 30 volts D.C.

1/10 horse power at 120 volts A.C. 1/10 horse power at 240 volts A.C.

AMBIENT TEMP: -10°F to 104°F (-23°C to 40°C) Controller only

REPEATABILITY: +2% maximum at constant voltage

and temperature

POWER

CONSUMPTION: 3 watts maximum

SPEED RANGES: Input ranges at which relay will energize:

LOW: 2 to 120 PPM MEDIUM: 20 to 1200 PPM HIGH: 200 to 12,000 PPM

SIGNAL POINT: Speed at with relay will de-energize for

Underspeed, or energize for Overspeed. Recommended to be 15-20% lower or higher

than running speed. This will eliminate

nuisance shutdowns.

START UP DELAY: Adjustable up to 45 seconds

SENSOR SPECIFICATIONS:

MODEL NUMBER	RMS-8S	RMS-128	RMS-188	RMS-308
Sensor Type	2 wire DC	2 wire DC	2 wire DC	2 wire DC
Body Diameter	8mm (0.31)	12mm (0.47)	18mm (0.71)	30mm (1.18)
Body Length	50mm (1.97)	71mm (2.79)	80mm (3.15)	81mm (3.19)
Thread Size	M8	M12	M18	M30
Cable Length	2m (6.5)	2m (6.5)	2m (6.5)	2m (6.5)
Sensing Range	1.5mm (0.06)	2.0mm (0.08)	5.0mm (0.20)	10mm (0.30)
Maximum Pulse Rate	2 kHZ	1.5 kHZ	1.0 kHZ	0.6 kHZ
Maximum Voltage	30 VDC	30 VDC	30 VDC	30 VDC
Maximum Current	100 MA	100 MA	100 MA	100 MA