



MODEL RMS CABLE OPERATED SAFETY STOP SWITCH

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.



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.

SPECIFICATIONS

MECHANICAL SPECIFICATIONS:

ENCLOSURE: Polycarbonate **MEETS:** NEMA 1 **WEIGHT:** .75 lbs. **SIZE:** 3" x 2-1/4" x 4-1/4"

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



The output of the model RMS-G is a DP/DT relay.

There are two sets of output contacts, each set includes normally open, normally closed, and common. As a result, the unit can be used to control two separate circuits such as a motor starter and a signal light.

SENSOR SPECIFICATIONS:

MODEL NUMBER	RMS-8S	RMS-12S	RMS-18S	RMS-30S
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
Target Disc	RMS-8T	RMS-12T	RMS-18T	RMS-30T

AIRMATIC[®] INC

...HELPING PRODUCERS EXCEL![®]

AIRMATIC^{INC} founded in 1944, is a woman-owned Industrial Distributor, with installation and maintenance capabilities, offering equipment, machinery, and shop supplies to the Industrial, Construction, Utility, Government, and Commercial Markets. Our products and services are sold through three business units:

The **MATERIALS MANAGEMENT GROUP** provides products and services to industries that convey, store, transport, and process powders and bulk solids from aggregates, cement, and chemicals to foods, grains, metals, power generation, and waste water treatment applications;

The **SERVICE GROUP** provides fabrication, installation, and maintenance services to improve bulk materials handling efficiency; mechanical clean-out services for silos and hoppers to eliminate material flow problems; and shop repair/rebuilding and modifications services of products sold by the Company. Our Customers tell us that by choosing AIRMATIC to solve their problems, they gain increased productivity, decreased costs, and a safer, cleaner work environment.

The **TOOL GROUP** provides power tools, personal protective equipment, materials-handling equipment, shop equipment and MRO supplies used for production, fabrication, assembly, metal removal, maintenance, and storage in manufacturing, construction, utility, and commercial applications.

800.332.9770 *Toll Free*
+1 215.333.5600 *International*



888.964.3866 *Toll Free*
+1 215.331.9770 *International*



www.airmatic.com



infocenter@airmatic.com



284 Three Tun Rd. Malvern PA, 19355

