

Model SRC Speed Responsive Switch

OPERATION INFORMATION

USAGE:

The model SRC motion sensing control is a heavy duty compact switch designed to include all mechanical and solid state electronic components in one housing. It will produce an contact closure at a predetermined speed which may be either overspeed, underspeed, or zero speed. Model SRC protects all valuable rotating equipment including belt conveyors, bucket elevators, rotary feeders, or screw conveyors. It operates in either a clockwise or counterclockwise direction and mounts in any position.



SPECIFICATIONS

ELECTRICAL:

INPUT VOLTAGE: 105-135 volts A.C., 50/60 Hz. • 210-250 volts A.C., 50/60 Hz. (special order)

OUTPUT: DPDT relay to 3 Amp. Resistive at 120 volts A.C. • DPDT relay to 3 Amp. Resistive at 240 volts A.C. • DPDT relay to 3 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.

OPERATING TEMPERATURE RANGE: -50°F to +150°F
REPEATABILITY: +2% max. at constant voltage and temperature

POWER CONSUMPTION: 3 Watts

PICK-UP POINT: 3 speed ranges at which relay will energize. LOW 0.1 to 10 RPM • MEDIUM 1 to 100 RPM • HIGH 10 TO 1000 RPM

SIGNAL POINT: Speed at which relay will de-energize. recommended to be 15-20% lower than pick-up point. This will eliminate shutdowns.

START UP DELAY: Adjustable up to 45 seconds

MODEL SRC SPEED RESPONSIVE SWITCH

ACCESSORIES

MODEL S-1 STUB SHAFT
MODEL C-1 FLEXIBLE COUPLING
MODEL G-1 COUPLING GUARD
MODEL A-1 MOUNTING BRACKET
MODEL B-1, B-2 OR B-3 BEARING BRACKETS

HOW IT OPERATES:

The model SRC senses motion by means of a precision metal disc mounted on the input shaft. This disc generates measurable light pulses by a series of slots on its periphery, which rotate past an infrared light source. A photo-electric sensor monitors the series of light pulses and converts them to a digital electronic signal. Solid state circuitry then analyzes the digital signal and activates or deactivates the output relay at the preset speed.

MECHANICAL:

DRIVING TORQUE: 1 inch-pound maximum

SHAFT: 5/8" dia.. with #11 woodruff key (3/16"x7/8")

ENCLOSURE: Aluminum with screw cover.

MEETS: NEMA 3S, 4, and 4X • NEMA 7: Class I groups C & D • NEMA 9: Class II groups F & G

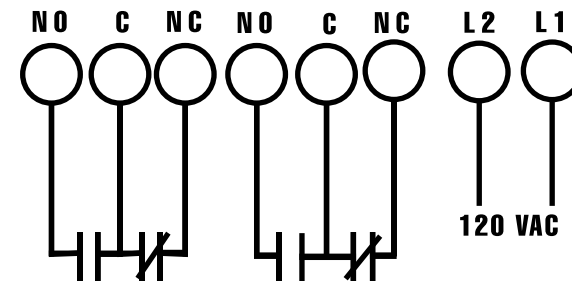
BEARINGS: Ball, permanently lubricated and sealed for life

SHAFT SEAL: Leather type oil seal

WEIGHT: 5 lbs.

SIZE: 5" high x 5" wide x 8 1/2" long

MODEL SRC WIRING DIAGRAM AND CONTACT RATINGS



INPUT: 105-135 VAC 50/60HZ

OUTPUT: DPDT RELAY

5 AMPS @ 120 VAC, 5 AMPS @ 240 VAC

5 AMPS @ 30 VDC

1/10 HP @ 120/240 VAC

PC CONVEYOR SAFETY STOP SWITCH

SS CABLE OPERATED SAFETY STOP SWITCH

MODEL 16 BELT ALIGNMENT SWITCH

MODEL SRC SPEED RESPONSIVE SWITCH

FLOW SWITCH

BRUSH TYPE CONVEYOR BELT CLEANER

COIL SPRING CONVEYOR BELT CLEANER

RUBBER WIPER BLADE BELT CLEANER

FLOW TYPE CONVEYOR BELT CLEANER

CONVEYOR HOODS

BIN AERATORS

PLEASE CHOOSE THE MODEL YOU NEED

- **SRC-1G** 120VAC NEMA 4
- **SRC-2G** 240VAC NEMA 4
- **SRC-1X** 120VAC NEMA 4 & 7/9
- **SRC-2X** 240VAC NEMA 4 & 7/9
- **SRC-3G** 24 V AC/DC NEMA 4
- **SRC-3X** 24 V AC/DC NEMA 4 & 7/9

