

<b>MODEL: 2130-A    ZERO SPEED SWITCH PRODUCT SPECIFICATIONS</b>
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**GENERAL:**

- Designed for general industrial service.
- Standard housing constructed from cast aluminum. Also available in cast iron (CI) and explosion proof (EP) housing.
- Electrical entrance is dust and vapor proof conduit fitting.
- Approximate dimensions: 6" Long, 3 3/4" High, 4 1/8" Wide. Shaft diameter is 1/2".

**ELECTRICAL:**

- Switch is equipped with one set of totally enclosed S.P.D.T. snap action contacts rated as follows:  
     AC: 10 amps. 125 — 250 — 480 volts    •    DC: 1/2 amp. 125 volts | 1/4 amp. 250 volts
- Each set of contacts operates independently of the other set.

**OPERATION:**

- The 2130-A is adjustable in field to allow setting contact trip-point at desired control speed. Adjustment settings indicated in footnote below affect both sets of contacts. On shaft rotation one set of contacts is actuated to make or break an electrical circuit as soon as input shaft speed, on acceleration, reaches set trip point. The other set of contacts remains dormant. The actuated contacts will remain in the actuated position as long as the shaft speed is maintained at or in excess of the trip-point speed on acceleration. On slow drifting speed loss, the contacts will drop out at shaft speed approximately 30 to 40 percent lower than the set trip point on acceleration. On rapid speed loss, contacts will drop out at a shaft speed value approaching zero speed, depending on rate of speed loss and trip-point setting on acceleration. A higher trip-point setting will effect a faster drop-out on speed loss.
- Adjustment for different speed settings is accomplished by turning a slotted thumb nut located inside the contacts chamber which positions a control magnet closer to an internal magnet for higher speed trip-point settings, and away from the internal magnet for lower speed settings. Adjustment nut is marked "S" for slower settings - turn to left, and "F" for faster settings - turn to right. **DO NOT FORCE-TURN** this nut beyond extremities.
- Unit contains a proprietary silicone oil mix which lends stability to its operation from -40<sup>0</sup> F to +250<sup>0</sup> F or -40<sup>0</sup> C to +482<sup>0</sup> C.

**MOUNTING AND DRIVING:**

- This model is available in base or flange type mounting and can be mounted in any position for operation.
- Recommended method of driving is with our flexible K-Coupling. Driving torque required is approximately 4 Inch Ounces.
- Use caution regarding overhang load on shaft. **Avoid end pressure and deflection on shaft.**

**SPECIFICATIONS:**

<b>Type</b>	<b>Mount</b>	<b>Description</b>	<b>Net Wt.</b>
2130-A*	B	Standard housing -- base mount	4 lbs.
2130-A *	F	Standard housing -- flange mount	4 lbs.
CI-2130-A*	B	Cast iron housing -- base mount	8 lbs.
CI-2130-A*	F	Cast iron housing -- flange mount	8 lbs.
2130-A *	EP-1	Explosion proof housing	13 lbs.

\* Range of trip-speed adjustment must be specified by adding a range number (1-4) to product type, i.e. 2130-A2.

1 = 25 to 70 R.P.M.      2 = 60 to 140 R.P.M.      3 = 125 to 450 R.P.M.      4 = 200 to 600 R.P.M.