



SCP 1000/2000 Presettable Speed Switch

- Single or double relay set point protection
- 1-100 and 10-1000 RPM set point ranges (others available)
- Built-in start delay and signal loss protection
- UL and CSA approved to applicable standards
- Explosionproof NEMA 4X housing is dirt, dust, grease and waterproof
- Switch selectable overspeed or underspeed sensing
- Dial in set point adjustment with digital accuracy
- 5-Year Limited warranty on speed switches, sensors & ratemeters*

* Contact factory for more information



Product Information

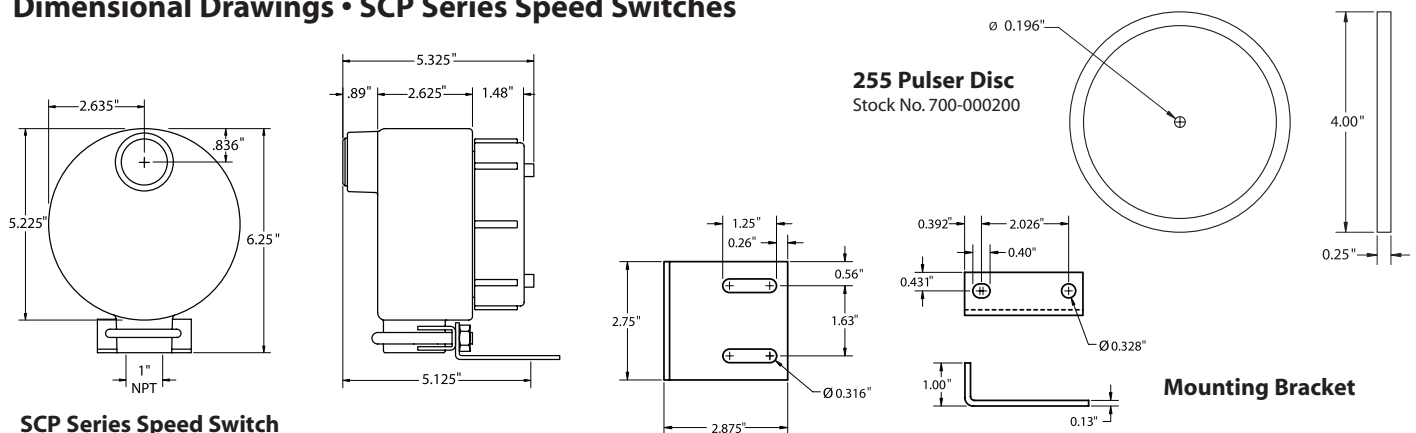
Description

SCP series presettable speed switches are self-contained shaft rotation monitoring systems providing one or two individually adjustable relay set points. They are ideal for use in hazardous and wet locations where speed indication for alarm or machinery shutdown is critical for safe operation. SCP series switches are an excellent choice for overspeed and/or underspeed protection of bucket elevators, fans/blowers, screw conveyors, rotary airlocks or virtually any rotating shaft. SCP series switches are offered as standard in two configurations: a single relay output (SCP-1000) or a dual relay output (SCP-2000). While many applications require only one set point (SCP-1000), the SCP-2000 can provide additional relay protection such as bracketing the operating speed with one overspeed and one underspeed set point. In many industries the SCP-2000 is commonly utilized with both relays set in the under-speed mode; the first relay provides warning of a slowdown, and also permits interlock wiring to shut down auxiliary machinery. If the shaft continues to slow down and reaches the second set point, the primary process can be wired for shutdown, maintaining the efficiency and safety of operations by preventing machine damage, product waste and costly downtime. SCP series switches feature visual set point adjustment via rotary dials for ease and accuracy, and all calibration can be done with the machinery at rest.

Principle of Operation

SCP series switches have an internal Hall-Effect sensor and are supplied with a shaft-end mounted Pulser Disc (or optional split collar Pulser Wrap), which generates an alternating magnetic field picked up by the SCP's large-gap, Hall-Effect sensor. The SCP decodes this frequency signal to determine shaft speed, and compares it to the pre-adjusted set point(s). The relay output(s) can then be used for equipment shutdown or to provide an alarm, assuring machine protection and process integrity. SCP series speed switches are fail-safe; any malfunction during operation will de-energize the control circuit.

Dimensional Drawings • SCP Series Speed Switches



SCP Series Speed Switch

