



SS300 Panel Mounted Speed Switch

Programmable Tachometer with 3 Setpoint Relays



FEATURES

- **Tachometer**
Easy to read, four-digit LED display indicates engine RPM
- **Easy Setup**
Digital display and pushbutton interface allows setup without running engine. Simply enter the number of pulses per revolution (number of teeth) and setpoints for each relay.
- **Multiple Outputs**
Three form-C (SPDT) relays can each have a different alarm threshold. 10-amp capacity suitable for driving valve coils.
- **Wide Input Range**
Built-in voltage regulator allows SS300 to operate on 12 or 24-volt systems. Accepts magnetic sensor or open drain proximity switch.

OPERATION

Setup

Press SEL button to select “TEETH” from menu. Use INC/+ and DEC/- until display reads the number of teeth on the sensor gear. If number of teeth is unknown, set TEETH = 60 and use the formula:

$$\text{SS300 RPM reading} \times 60 / \text{Engine RPM} = \# \text{ of teeth}$$

Press SEL button again to select “SET1” from menu. Use INC/+ and DEC/- until display reads the desired setpoint. Relay will be energized when RPM is at or above setpoint. Repeat to program SET2 and SET3 if needed.

APPLICATIONS

- **Feed Controller**
Automatic feed control for grinders, crushers, chippers, shredders and other equipment. Prevents damage from engine stall or overload.
- **Instrument**
Tachometer.
- **Interlock**
Prevent engagement of PTO when engine RPM is below minimum requirement.
- **Rev Limiter**
Disable throttle up input on cruise control module when maximum desired RPM is reached.

ORDERING INFORMATION

PART #	DESCRIPTION
SS300	Panel mount tachometer and feed controller

SPECIFICATIONS

General	Power Requirement	9-30vdc, 300mA nominal + power to loads 24vdc version available
Outputs	Relays	3 x Form C (SPDT)
	Rating	10-amp DC
Sensor Input	Type	Magnetic pickup, 5-30vpp AC Proximity switch, open drain
	Frequency Range	100 to 10,000Hz
Performance	Response Time	1/10th second
	RPM Range	0 to 3,500 RPM
	Accuracy	1-10 teeth: 1/2 second response, 2Hz accuracy
		11-100 teeth: 1/4 second response, 4Hz accuracy 101-200 teeth: 1/16 second response, 16Hz accuracy
Interface		Pushbutton/LED menu
Display	Type	4-digit LED
Dimensions		6.125" L x 3.625" W x 1.5" H
Environmental	Storage	-40°C to 85°C
	Operating	-10°C to 60°C

WIRING

