

Milli-Speed Switch

BETTER BY DESIGN

Milli-Speed Switch

Monitors Rotating Machinery for Dangerous Underspeed Conditions

APPLICATION

The Milli-Speed Switch with 4 - 20 mA output is designed to detect belt slip, belt underspeed, stop motion, low speed or zero speed on bucket elevators, conveyors, airlocks, mixers, fans, grinders and many other rotating machines. Totally sealed and simple to calibrate, the Milli-Speed works in the harshest of conditions.

METHOD OF OPERATION

An inductive sensing device located in the nose of the Milli-Speed enclosure will detect a metal target. This target can be an existing bolt head or device attached to a shaft, such as 4B's Whirligig® sensor mount. During installation, the Milli-Speed is set to the normal running RPM by simple magnetic calibration.

FEATURES

- 4 20 mA Output
- ► Simple Magnetic Calibration
- ► Loop Powered (2 Wire)
- Totally Sealed Construction: Submersible
- Built In Conduit Adaptor (1/2" NPT)
- Easy Installation with Whirligig® Sensor Mount
- SpeedMaster™ Compatible for Accurate Testing

PART NUMBERS/ACCESSORIES

MIL8001V4C Milli-Speed Switch

Whirligig® Shaft Sensor Mount ▶ WG1-4B-4 ► MAG2000 Mag-Con™ Magnetic Connector

► SM2 SpeedMaster™ Sensor Testing Device



The SpeedMaster™ is the only device that accurately tests the calibration of a speed switch, and allows testing of the alarm and shutdown features of the sensor while installed on the machine shaft.

To see it in action, visit: www.go4b.com/speedmaster









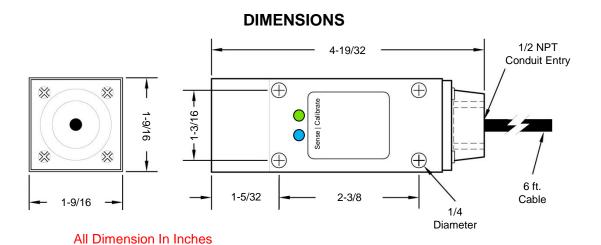


Fax: 309-698-5615

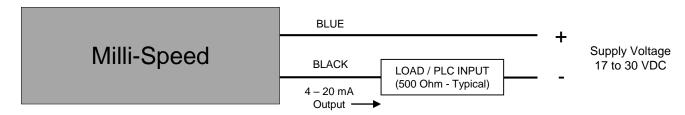


Milli-Speed Switch

BETTER BY DESIGN



CONNECTIONS



NOTE: Supply polarity to the Milli-Speed is not important and the load can be connected to either wire.

TECHNICAL SPECIFICATIONS

Milli-Speed Switch - Underspeed Sensor

MIL8001V4C	
Power Supply:	17 - 30 VDC
Load:	500 Ohm (Typical)
Speed Range:	20 - 3,600 PPM (Pulses Per Minute)
Sensing Range:	Ferrous Target - 11/32" (9 mm) Maximum Non-Ferrous Target - 7/32" (6 mm) Maximum
Operating Temperature:	-13°F (-25° C) to 158°F (70° C)
Calibration:	Magnetic
Output: (Linear from 4 - 20 mA)	Over Speed 20 mA (123% or More of Calibrated Speed) Calibrated Speed 17 mA (100%) Zero Speed 4 mA (0 - 10% of Calibrated Speed)
Output Accuracy:	+/- 0.2 mA
Response Time:	<1 Second (Typical)
Overall Resolution:	0.3% (22 Microamps)
Cable:	6 ft. (2 m) - 2 Conductor (Loop Powered)
Protection:	IP67 Dust and Water Tight (Fully Encapsulated)
Approvals:	CSA Class II Division 1 Groups E, F and G (USA & Canada) CE - Available (Europe)

Copyright © 2015 4B Components Ltd. All rights reserved. Information is subject to change or modification without notice. Refer to instruction manual for installation information. CRD093016