

M100 Stopswitch

BETTER BY DESIGN

M100 Stopswitch

Monitors Rotating Machinery for Stopped Motion Conditions

APPLICATION

The M100 Stopswitch is a simple inductive shaft speed monitoring device. The self-contained unit has a single set point, which signals when the shaft has stopped rotating. It can be used for process control, motion detection and stopped shaft indication.

METHOD OF OPERATION

An inductive sensing device located in the nose of the M100 enclosure will detect a metal target. This target can be an existing bolt head or device attached to a shaft. The M100 Stopswitch requires no calibration and provides an output when the shaft has stopped rotating.

FEATURES

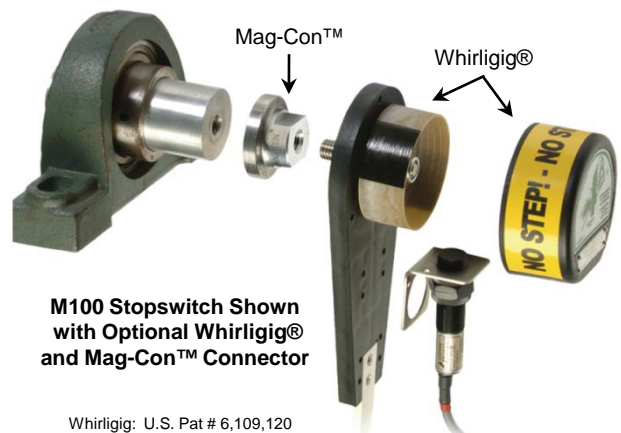
- ▶ Stopped Motion Detection
- ▶ Totally Sealed Construction (Submersible)
- ▶ Microprocessor Accuracy
- ▶ LED Indication
- ▶ CSA / NRTL Class II Div 1 Groups E, F & G Approved
- ▶ IP67 Protection

PART NUMBERS/ACCESSORIES

- ▶ M1001V10F M100 Stopswitch
- ▶ A12NPT 1/2" NPT Conduit Adapter
- ▶ WG1-4B-4 Whirligig® Shaft Sensor Mount
- ▶ MAG2000 Mag-Con™ Magnetic Connector for Whirligig
- ▶ CDL1 2 Wire Load Device (110 VAC)
- ▶ CDL4 2 Wire Load Device (24 VDC)



Whirligig® Shown with Sensor Installed



M100 Stopswitch Shown with Optional Whirligig® and Mag-Con™ Connector

Whirligig: U.S. Pat # 6,109,120
Mag-Con: U.S. Pat # 6,964,209

⚠ WARNING: Do Not Use M100 Stopswitch for Belt Slip Applications

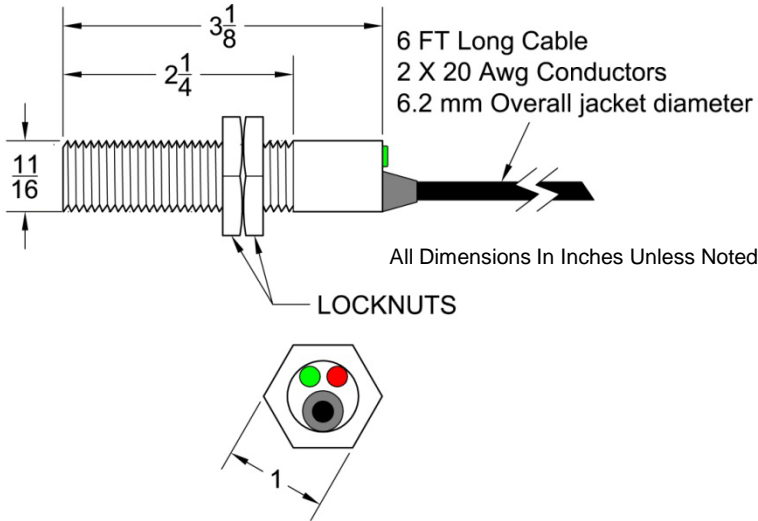
Detailed specification, wiring diagrams and installation/operating instructions available upon request.

Please refer to instruction manual for correct installation. Information subject to change or correction. Nov 2010

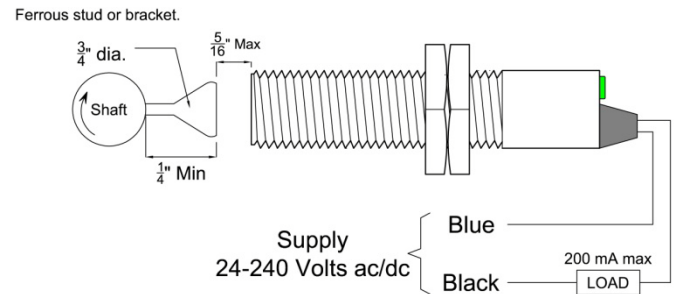
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DIMENSIONS



CONNECTIONS



NOTE: The load must have the same voltage rating as the supply being used.

TECHNICAL SPECIFICATIONS

M100 Stopswitch - Monitors Rotating Machinery for Stopped Motion Conditions

M1001V10F	
Power Supply:	24-240 VAC / VDC
Power Consumption:	Load dependent (200 mA maximum)
Fuse:	5 amp maximum
Output:	Triac, normally closed above minimum input speed Normally open at stopped motion
Switching Capacity:	200 mA maximum
Saturation Voltage:	8 Volts maximum (output on)
Leakage Current:	1.6 mA maximum (output off)
Operating Temperature:	-13°F (-25°C) to 158°F (70°C)
Start Up Delay:	4 seconds
Sensing Range:	5/16" (8mm) maximum on ferrous metal
Input Pulse Range:	20 - 2,000 ppm
Trip Point:	Stopped motion (4 seconds)
LED Indicators:	Red - "target sensed" Green - "closed circuit"
Relative Humidity:	90% RH
Calibration:	Factory set (no site calibration required)
Cable:	6' (2 m) 2 conductor
Approval:	CSA / NRTL Class II Div 1 Groups E, F, & G (US and Canada)
Protection:	IP67

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