

## M100 Stopswitch

### Detect Dangerous Underspeed Stop 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 – trip signal if no pulse received within a 4 second period
- ▶ Universal Voltage: 24-240V AC/DC
- ▶ Start up delay: 4 seconds
- ▶ “2-Wire” Technology: allows simple installation
- ▶ Microprocessor Accuracy
- ▶ LED Indication
- ▶ Certified for ATEX Zone 20 & CSA Class 2 Division 1 Groups E, F & G
- ▶ IP67 Protection: totally Sealed Construction
- ▶ M18 x 1.0 ISO threaded body

#### PART NUMBERS/ACCESSORIES

- ▶ M1001V10A Stopswitch M100
- ▶ WG1-8A-BR Whirligig (target/bracket/guard)
- ▶ MAG2000M Mag-Con Magnetic Connector for Whirligig



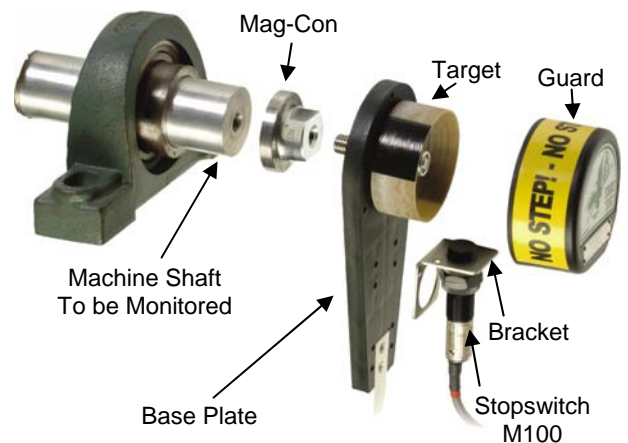
**M1001V10A**



**ATEX-Approved**  
Ex II 1D T100°C-IP 65-ZONE 20



**CLASS 2 Div. 1**  
Group E, F & G



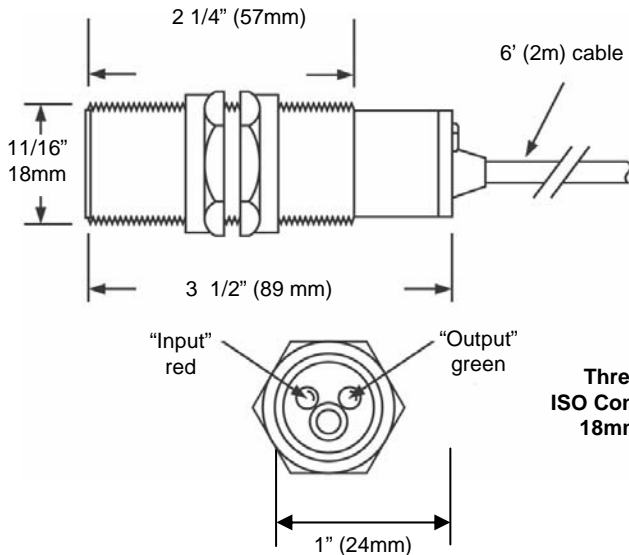
**Stopswitch M100 shown with optional Whirligig and Mag-Con**

(Used for simple and reliable installation on shaft speed monitoring applications)

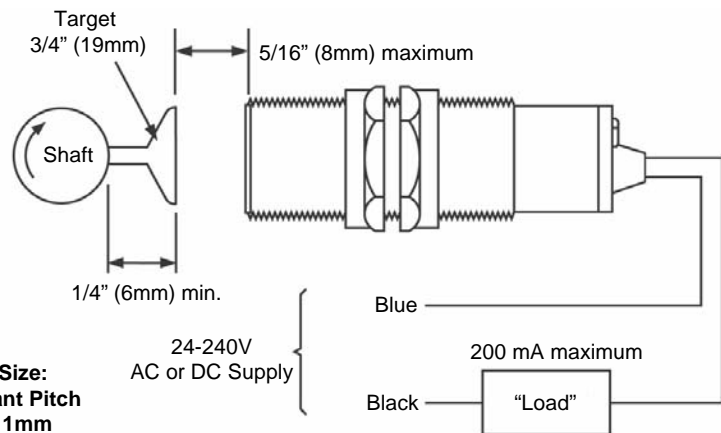
Detailed specifications, wiring diagrams and installation / operating instructions available immediately upon request.

Please refer to instruction manual for correct installation .  
Information subject to change or correction. May 2007.

## M100 Dimensions



## M100 Connections



Note: The "load" must have the same voltage rating as the supply being used

## TECHNICAL SPECIFICATIONS

### Stopswitch – Detect Dangerous Stop Conditions

	M1001V10A - (M100 2-Wire)
<b>Power Supply:</b>	24-240 VAC/DC
<b>Power Consumption:</b>	30 mA
<b>Fuse:</b>	5 amp maximum
<b>Output:</b>	Triac, normally closed above minimum input speed Normally open at stopped motion
<b>Switching Capacity:</b>	200 mA maximum
<b>Saturation Voltage:</b>	8 Volts maximum (output on)
<b>Leakage Current:</b>	1.6 mA maximum (output off)
<b>Operating Temperature:</b>	-25°C (-13°F) to 70°C (+158°F)
<b>Start Up Delay:</b>	4 seconds
<b>Sensing Range:</b>	8mm (5/16") maximum on ferrous metal
<b>Input Pulse Range:</b>	20-2000 ppm maximum
<b>Trip Point:</b>	Stopped motion (4 seconds)
<b>LED Indicators:</b>	Red - "target sensed" Green - "closed circuit"
<b>Relative Humidity:</b>	90% RH
<b>Calibration:</b>	Factory set (no site calibration required)
<b>Cable:</b>	2 m
<b>Approval:</b>	ATEX Zone 20 & CSA Class 2 Div1 Groups E,F& G
<b>Protection:</b>	IP67

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