

Whirligig

Equipment:	All M-100, No-Rotation Sensor Applications	Date Issued:	7-31-2003
Additional Reference:	none	Revised:	5-10-2004
Contacts:	Rick Hodge, Service Support Coordinator and Ted Glassmire, Service Support Coordinator	Revision #:	1
			Astec Service Department

Whirligig Universal Shaft Sensor Mount

The purpose of this information letter is to provide customers with an explanation of what the Whirligig universal shaft sensor mount is, and what it looks like.

PART NUMBERS:

ITEM DESCRIPTION	ASTEC PART NUMBER
Whirligig	071150
Mag-Con	071151
M-100 Stopswitch	042796

THE WHIRLIGIG:

The Whirligig is an integrated sensor mount and enclosed sensor target assembly.

It has proven to be very useful helping to eliminate nuisance alarms, when the nuisance alarms are caused by:

1. The sensor losing the target because of heat expansion causing miss alignment of the sensor and target.
2. The sensor failing due to temperatures in the sensor becoming too high for internal components.

The Whirligig used with the Mag-Con, magnetic connector, allows the entire unit to be positioned on the end of the shaft. Since the sensor, target and mount are all one assembly they move together as the shaft expands. The assembly also provides extra insulation from the heat of the shaft.

When installing a Whirligig on an existing application be sure to remove all existing “targets” and any other now unnecessary snag hazards. Be sure to guard the area if necessary.

Following are two pages from the manufacturer's literature describing the Whirligig and Mag-Con. For additional information please contact the Astec Service Department, (423) 867-3754.



Whirligig[®]

Universal Shaft Sensor Mount

US. Pat. 6,109,120

Sensor Installation Made Easy

Speedswitches

Slipswitches

Motion Monitors

Slow - Downs

Stopswitches

Motion Switches

Proximity Switches



Now Available With Mag-Con,
Magnetic Connector
(Over 100 lbs. full force)

- ▶ **Universal Sensor Mounting.**
- ▶ **Fully Enclosed.**
- ▶ **Floats with Machine Shaft.**
- ▶ **Simulated Test Facility**
- ▶ **Simple, Reliable Single Bolt Installation.**



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Whirligig® Universal Shaft Sensor Mount

The Whirligig® three-in-one target/bracket/guard makes the installation simple for all standard cylindrical or DIN style inductive sensors. The sensor mounts to the base plate and the complete assembly bolts to the machine's shaft. Machine and shaft vibration does not affect the performance of the sensor, as the whole assembly moves with the shaft. Personal safety is improved since the rotating target is completely enclosed by a tough plastic cover.



Shown with
4B "SpeedSwitch"



Shown with
30mm Sensor

Shown with
18mm Sensor

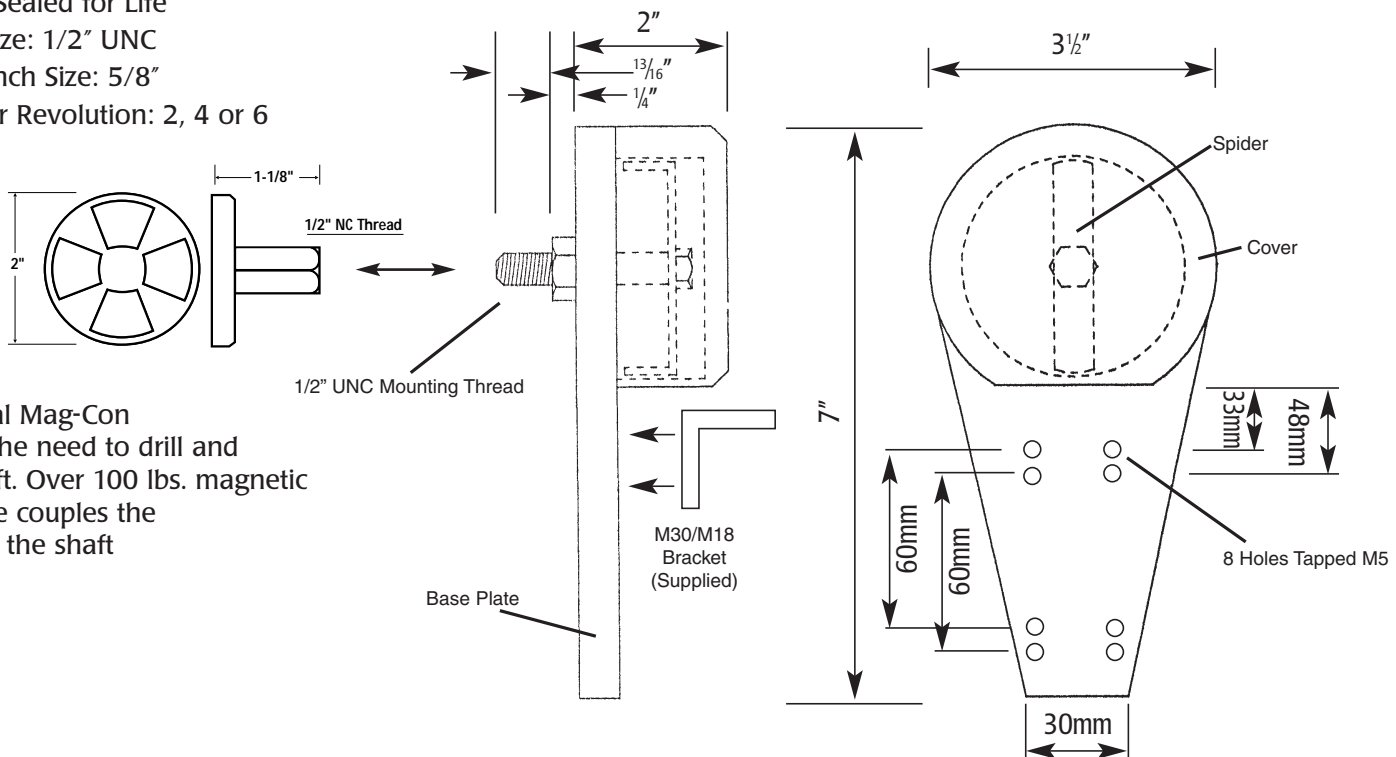
Accessories

- Speedswitch
- Slipswitch
- Stopswitch
- 30mm - 3/4" NPT Conduit Adapter
- 18mm - 1/2" NPT Conduit Adapter
- MAG-CON

- M800
- M300
- M100
- A34NPT
- A12NPT
- MAG2000

Technical Specifications

- Shaft Material: Stainless Steel
- Body Material: Polypropylene or Stainless Steel.
- Bearing: Sealed for Life
- Thread Size: 1/2" UNC
- Hex Wrench Size: 5/8"
- Pulses Per Revolution: 2, 4 or 6



The optional Mag-Con eliminates the need to drill and tap the shaft. Over 100 lbs. magnetic pulling force couples the Whirligig to the shaft

U.S. Pat. 6,109,120