

Field Service Bulletin

FSB 18-04-02-02

FSB-18-04-02-2

Date: April 02, 2018**Subject File:** Magnetic Switch SKU 03-01-0005 replaces 03-69-0116**Product:** Telemetry Accessory Magnetic Switch pair. Use cases High-Rail, Trailer Door, Crane.**Author:** Richard McIntyre <Richard.McIntyre@bsmtechnologies.com>

DESCRIPTION

03-01-0005 Wide Gap Magnetic Switch Pair, detection within two and ½ inch gap, magnet has aluminum housing.**Replaces.....****03-69-0116** Option, Door Sensor magnetic, detection within 2 inch gap, magnet has plastic housing.

INSTALLER TECHNICAL NOTES

WHAT CHANGES for Installer:

White switch wire to Ground (near box within the dash area.) on older switch the switch wire was black.

What remains the same:

Mounting methodology, the Red switch wire connects to Locaotor/Box Input. (example for Hi-Rail the Mag sw. Red wire connects to the SFM7000s Input 7 Yellow/White.

ADDITIONAL INFORMATION

EXISTING SKU/NAME/DESCRIPTION from SF.com

| | | |
|--|------------------------|--|
| <u>Telemetry - Magnetic Door Sensor</u> | <u>03-01-0005-00.0</u> | Wide Gap magnetic switch pair, detection within two and 1/2 inch gap, aluminum housing, suitable for truck and trailer barn and roll up doors open/closed, high rail engaged and crane in/out of cradle. |
|--|------------------------|--|

The new/replacement (mfr'd by GRI , George Risk Industries) is very similar to the original (mfr'd by Amseco)

Both are Form C contacts (3 wires: a common a normally open and a normally closed).

IMPORTANT, GRI has never locked in the their wire colours. They reserve the right to change them at any time. The fool proof method is to choose the colours that are listed on the sheet send with each switch for the Form C, Common and Normally closed (NC). See yellow hi-lite in photo of the wire colour table.

| Form Type | Common | Not Used | NC |
|-----------|--------|----------|-----|
| "C" Form | White | Green | Red |

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ORIGINAL 03-69-0116

Not Used (Open when Active)

Closed when Active

Black To Ground (Common)

Mount to Chassis

Mounting Bracket

Magnet

Mount on mobile part of the rail gear

Red connects to Yellow/White Hy-Rail Input on the sensor harness. There should be a negative signal when the Hy-rail is down and no connection when the Hy-rail is up or locked. When the Hi-Rail is up, the sensor and magnet should be within ½ inch to 1 inch in distance. When the Hi-Rail moves down, the sensor and magnet move away from each other allowing the sensor to send a ground on the red wire and back to the GPS unit.

Note: A wire is typically run from the sensor to the inside the cab, so that the black wire of the magnetic sensor can be grounded at the same location as the GPS unit. It is not recommended to ground the black wire of the magnetic sensor to the outside frame of the vehicle to avoid corrosion that may result from extreme weather conditions. Same applies to the Hy-rail sensor.



NEW REPLACEMENT 03-01-0005

Not Used (Open when Active or Engaged)

Closed When Active

White To Ground

Mount to Chassis

Mounting Bracket

Magnet

Mount on mobile part of the rail gear

Red connects to **Yellow/White Hi-Rail Input on the sensor harness**. There should be a negative signal when the Hi-Rail is down and no connection when the Hi-rail is up or locked. When the Hi-Rail is up (on Road), the sensor and magnet should be within ½ inch to 1 ½ inch in distance. When the Hi-Rail moves down (on Rails), the sensor and magnet move away from each other allowing the sensor to send a ground on the red wire and back to the GPS unit.

Note: A wire is typically run from the sensor to the inside the cab, so that the white wire of the magnetic sensor can be grounded at the same location as the GPS unit. It is not recommended to ground the white wire of the magnetic sensor to the outside frame of the vehicle to avoid corrosion that may result from extreme weather conditions. Same applies to the Hy-rail sensor.

