

# **INSTALLATION INSTRUCTIONS**

## **FOR ROLLER GUARD SYSTEM ROLLER ANTI-BIND**

**MODEL#  
GRG-004**

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**GOODLIN SYSTEMS INC**

**[www.goodlinsys.com](http://www.goodlinsys.com)**

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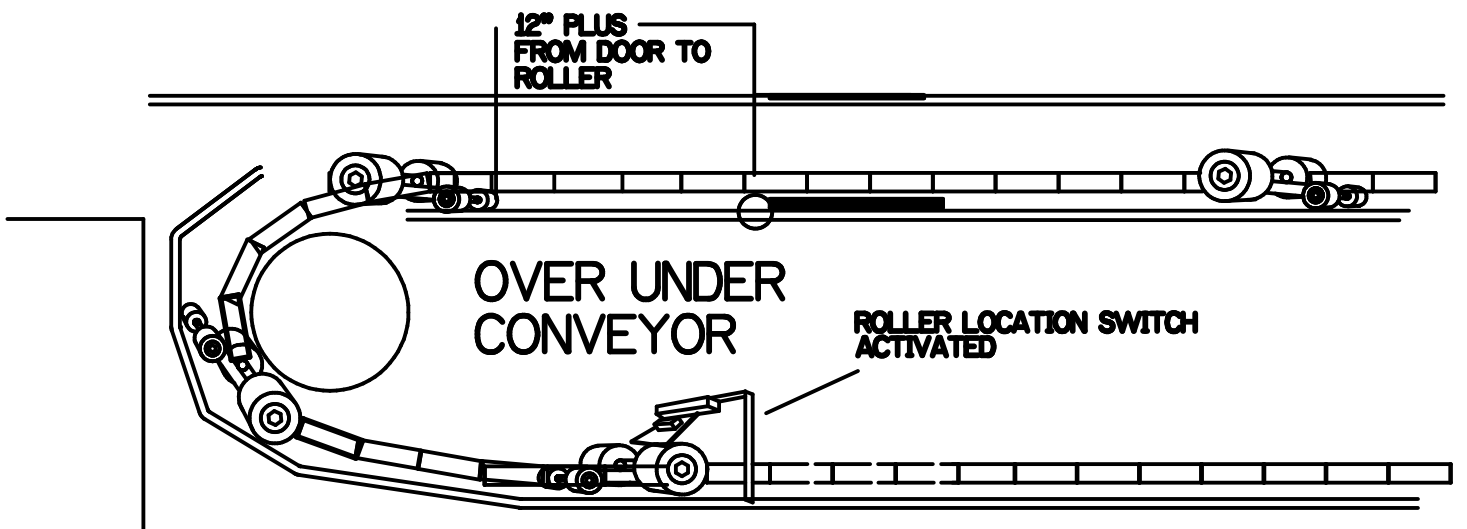
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## ROLLER LOCATION SWITCH

This unit needs a roller sensing unit to signal the roller placement/location. This can be a simple limit switch but the GOODLIN ROLLER-LOCATION SWITCH model GS-RLS-1 is recommended. The proper placement of this unit is important to the Roller-Up function.

On any over-under conveyor, simply stop the conveyor when a roller is 8-12 inches BEFORE the roller forks. Mark the place where a bottom roller is located. This is where the sensing unit is to be placed. This is so the the roller is 8-12 inches from the roller forks when the ROLLER-UP is signaled to activate the Roller-Up Solenoid.



## **INSTALLMENT PROCEDURES**

- 1- PICK OUT A GOOD TIME FOR INSTALLATION! An evening that has a relatively slow next day is preferred in case of trouble or complications.
  
- 2- TEST THE CARWASH FOR PROPER WORKING ORDER! MAKE SURE THE EQUIPMENT WORKS BEFORE WORKING ON IT. This way if something is wrong after you start you can tell it's the Equipment and NOT the INSTALLATION of the NEW SYSTEM!
  
- 3- Find a suitable place for the control box.  
MAKE SURE THE ROLLER LOCATION SWITCH'S CORD CAN REACH THE CONTROL BOX!
  
- 4- Make sure you have a constant 110v power (a hot and a neutral) for this system. It is recommended that this be a constant circuit, and NOT INTERLOCKED. Power to the control power keeps the control box free of condensation.
  
- 5- Install roller location switch, control box, and wire them in according to the wiring schematics. program the ROLLER GUARD CARD to the combination you want to use.
  
- 6- Double check your work (Sometimes an easy 'opps' can be caught before any damage and inconvenience is done.)
  
- 7- TEST THE SYSTEM. See 'START UP PROCEDURES' using your combination.
  
- 8- TEST THE CARWASH FOR PROPER OPERATION!
  
- 9- ENJOY YOUR NEW SYSTEM!

## START-UP PROCEDURES

### FOR ROLLER CHECK UPON ACTIVATION ONLY-

- 1) With the ROLLER GUARD's bypass switch in the BY-PASS position test the roller up system for proper working order. (It should work as before the ROLLER GUARD was installed.)
- 2) Place the BY-PASS SWITCH into the normal position  
(LED #3 will now work when the roller-up system calls for a roller)
- 3) Activate the roller-up system as normal. It should function normally with a delay upon pushing the roller-up button. This delay time is the ROLLER GUARD locating the roller position.
- 4) If the above all works the ROLLER GUARD is installed properly.  
In the case of problems go to the TROUBLE SHOOTING section.

### FOR ROLLER CHECK UPON ACTIVATION and DEACTIVATION-

- 1) With the ROLLER GUARD's bypass switch in the BY-PASS position test the roller up system for proper working order. (It should work as before the ROLLER GUARD was installed.)
- 2) Place the BY-PASS SWITCH into the normal position  
(LED #3 will now work when the roller-up system calls for a roller)
- 3) Activate the roller-up system as normal. It should function normally with a delay upon pushing the roller-up button and the time for the roller forks normally deactivate. This delay time is the ROLLER GUARD locating the roller position.
- 4) If the above all works the ROLLER GUARD is installed properly.  
In the case of problems go to the TROUBLE SHOOTING section.

### FOR ROLLER CHECK UPON DEACTIVATION ONLY-

- 1) With the ROLLER GUARD's bypass switch in the BY-PASS position test the roller up system for proper working order. (It should work as before the ROLLER GUARD was installed.)
- 2) Place the BY-PASS SWITCH into the normal position  
(LED #3 will now work when the roller-up system calls for a roller)
- 3) Activate the roller-up system as normal. It should function normally with a delay time when the roller forks normally deactivate. This delay time is the ROLLER GUARD locating the roller position.
- 4) If the above all works the ROLLER GUARD is installed properly.  
In the case of problems go to the TROUBLE SHOOTING section.

## TROUBLE SHOOTING

### PROBLEM

### POSSIBLE CAUSE/CORRECTION

ROLLERS NOT COMING UP

1. NO POWER
2. ROLLER LOCATION SWITCH NOT BEING ACTIVATED. OR DEFECTIVE
3. AIR IS OFF
4. WIRING NOT CORRECT

1S) Turn on the power

2S) Check sensor. When a roller passes by it should lift the rubber evenly up so that the sensor is within .5" of the rubber magnet block a click can be heard as the switch turns on check with an ohm meter for continuity or LED #2.

3S) Turn on the air!

4S) Check wiring connections

ROLLERS WILL COME UP AT THE WRONG TIME.

1. The bypass switch is in BYPASS position
2. Sensor unit in the wrong position
3. Sensor switch is going bad.

FORKS ACTIVATING \DEACTIVATING AT THE WRONG TIME.

1S) Place the switch in the normally position

2S) Remount\reposition sensor unit.

3S) Watch the LED's for proper working order. #2 should have a good steady pulse with the conveyor running it should be NO LESS THAN 1 sec ON

**IF NONE ABOVE CONSULT THE INSTALLER\FACTORY.**