

2015 EDITION



THE TRUE CAR WASH DETECTION SYSTEMS
www.goodlinsys.com



GOODLIN SYSTEMS INC.

PH (224) 333-0332 FAX (224) 678-9034



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Listed here are Normal Items, other controls/accessories may be available upon application request.

www.goodlinsys.com VISA, DISCOVER & MASTER CARDS ACCEPTED



The Most Dependable Switch For Activating Any Function In Your Car Wash!

The GL-RO-3 is an inductive loop control box. It makes setting up an inductive loop system easy and affordable.

Unlike Photo eyes, employee movement does not affect an inductive system. This system is based on the principle of inductive metal detection. When metal objects enter the electrical magnetic field generated through the loop, the detector in the control box is activated to show a presence condition. This is when the relay (in the control box) is activated. The control box can be customized for different control arrangements (see control box options).

BENIFITS:

- * Dependable Inductive Detector (Amplifier)
- * LED Indication For Power And Activation
- * External Activation Light Circuit Indication (Fused)
- * E-Z Wiring Terminal Strip For Fast And Clean Installation
- * Wiring Diagrams, Installation Instructions Included.

REQUIREMENTS:

110VAC 1AMP Power (Constant)

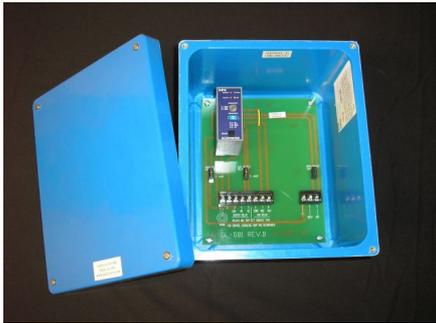
Inductive Sensor (See Inductive Sensor GL-14 or GL-SM8-B) The inductive sensors can be an Inductive Stand, Pad, Inground, Preformed or a Floor Cut Loop

OPTIONS:

- Bypass Switch (Turn or Toggle Type)
- External Reset Switch (Push Button Type)
- Counter
- Pad Lock (To Lock Up The Control Box)

GENERAL APPLICATIONS:

- Car Wash Entrance (For Computer)
- Car Wash Trip Switch (In Place Of Limit Switch)
- Vehicle Presence For Gates \ Entrance Ways (Door Opener)
- Vehicle Occupation Of Bay \ Parking Space
- Vehicle Counter
- Vehicle Presence For Prep Gun Activation
- Vehicle Presence For Vacuum Activation



The Most Dependable Vehicle Switch For Activating An Important Function!

The **GL-DB1** is an inductive loop control box with a single detector. It makes setting up an inductive loop system easy and affordable.

The **GL-DB1** is designed to be used with a loop sensor **PAD (GL-SM8)** or **STAND (GL-14G)**. It's the best vehicle signal system for equipment control. Unlike most photo eye systems, employee movement, wind, water, ice, steam and dirt has no effect on inductive sensors. The **GL-DB1** uses the principle of inductive metal detection. When metal objects enter the electrical magnetic field generated through the loop, the detector in the control box is activated to show a presence condition. This is when the relay (in the detector) is activated. The control box is set up to give out one single output per detection. Perfect for controller applications such as gate and anti-collision signals.

BENIFITS:

- * Nema 4x Rated Fiber Enclosure For Superior Protection
- * Output Is Common Dry Contact Type Single 3Amp C, NO, NC Arrangement
- * Dependable Inductive Detector (Amplifier) For Long Dependable Life
- * E-Z Wiring Terminal Strip Makes For Fast And Clean Installation
- * Wiring Diagrams, Installation Instructions Included.

REQUIREMENTS:

110VAC 1AMP Power (Constant)

Inductive Sensor (See: Inductive Sensors GL-SM8, GL-14G)

NOTE: Will NOT Work Any Sensor Indication Lights

OPTIONS:

External Reset Switch (Push Button Type) order Model # GL-DB1-RS

GENERAL APPLICATIONS:

Car Wash Entrance (For Computer)

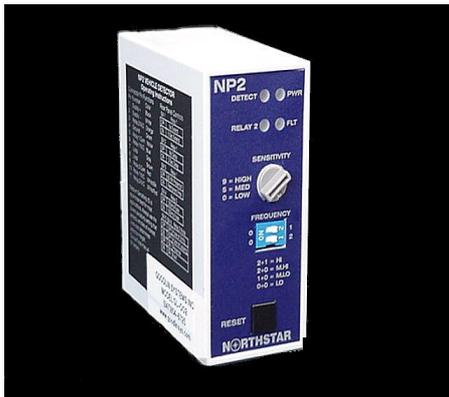
Car Wash Trip Switch (In Place Of Limit Switch)

Vehicle Presence For Gates \ Entrance Ways (Door Opener)

Vehicle Occupation Of Bay \ Parking Space

Vehicle Counter

Vehicle Presence For Prep Gun Activation



THE POWER OF INDUCTIVE DETECTION!

The **GL-002** is an inductive amplifier that has been the heart of our vehicle sensing control systems. It provides dependable vehicle detection that is unmatched by any other. It has the ability to detect a vehicle without interference from employees or atmospheric conditions.

The unit utilizes an inductive loop (a set of wire windings usually called a sensor) to set up a magnetic frequency barrier. When the barrier is disrupted by metal, the unit can signal the turn on of any piece of equipment. Unlike Photo eyes, the SYSTEM (combination of the **GL-002 DETECTOR** and a **GL-14 STAND** or **GL-SM8 PAD**), is not affected by employee movement. The SYSTEM is based on the principle of inductive metal detection. When metal disrupts the magnetic field generated through the sensor the detector turns on (presence). No physical contact is needed for the system to work. An Inductive SYSTEM is unaffected by water, mist, temperature, employee movement and chemicals. It is the perfect match for harsh car wash conditions. The detector has an L.E.D. indicator to show a presence condition. This is when the presence relay is activated. The DETECTOR can be customized for different control arrangements.

STANDARD FEATURES:

- * Inductive Detection
- * 1 Presence Relay - SPDT (7AMP OUTPUT)
- * 1 Pulse/Auxiliary Function Relay - SPDT (7AMP OUTPUT)
- * Fits Standard 11 Pin round Base (Same As Round 11 Pin Relay Bases)
- * Detector Wiring Diagram

OPTIONS:

- 11 Pin Relay Base (For Mounting And Wiring)
- 11 Pin Plug Assembly (12 inch length)

GENERAL APPLICATIONS:

- Vehicle Wash Entrance (For Computer)
- Vehicle Wash Trip Switch (In Place Of Limit Switch)
- Vehicle Presence For Gates \ Entrance Ways (Door Opener)
- Vehicle Occupation Of Bay \ Parking Space
- Vehicle Detection for Computer Controlled Anti-Collision
- Vehicle Counter
- Vehicle Presence For Prep Gun Activation
- Vehicle Presence For Vacuum Activation
- Traffic Controls

INDUCTIVE LOOP DETECTOR

GL-002



Supply Voltage – (standard 120vac)
 Indicators – Front panel indicators include:
 Power – Green solid with correct power supplied
 Relay 1 – Red, Solid during detect.
 Relay 2 – Red, Solid during detect
 Fault - Yellow, solid during current fault, flashing for historical fault.

Sensitivity Boost – Automatic during detect except in the highest sensitivity setting (9)
 Connector – 11 pin Amphenol (standard 11pin round relay/time delay base will work)



Front Panel Selections:
 Sensitivity – controlled by front rotary switch
 0 = Low sensitivity 9 = High Sensitivity

Frequency – Four separate settings controlled by front panel DIP switches
 2+1 = High
 2+0 = Medium High
 1+0 = Medium Low
 0+0 = Low

Reset – front panel reset performs a hard reset of the detector



Rear Panel DIP Switch Selections

Relay 1
 Extend – switch 1 is for extending the detector output after the vehicle has left the loop. Switch 1 OFF = No extension ON = 5 second extension. This is once the vehicle leaves the loop. This extension applies to relay 1 only.
 Delay – switch 2 is for providing a 2 second delay, the detector will ignore the vehicle until the vehicle has been present over the loop for 2 seconds.
 Switch 2 OFF = No Delay ON = Delay

Presence Time – switch 3 provides for either a 1 hr presence of permanent presence. Switch 3 OFF = 1 hour Presence ON = permanent presence

PIN	FUNCTION
1	Power (+)
2	Power (-)
3	Relay 2 N.O.
4	Ground
5	Relay 1 Comm
6	Relay 1 N.O.
7	Loop
8	Loop
9	Relay 2 Comm
10	Relay 1 N.C.
11	Relay 2 N.C.



A SIDE SENSOR THAT WORKS!

The **GL-14** is an upright stand with wire windings that function as the sensor \ loop for an inductive loop system in place of a saw-cut-loop. It allows vehicle detection from the side of the vehicle rather than from the ground.

This upright 'loop' has a "cone sensing effect" that can be used for accurate measurement of a vehicle. With a sensing range of 24"+ the **GL-14** picks up the framework of a vehicle, and not just the outside skin. This gives a constant pickup even on non-metal body cars and high trucks. To protect the **GL-14** from accidental collisions the **GL-14** is equipped with a break-away-base that absorbs the impact and saves the **GL-14** and vehicle from damage. The **GL-14** is made with a PVC plastic and underground direct burial cable that allows the unit to stand up to sunlight, water, chemicals, scalding or freezing temperatures. When wired, a bright incandescent light located at the top of the **GL-14**, signals when the system is activated. (Control boxes GL-RO-3, GS-DCX1 AND GS-DCX2 have indication light support) Due to the nature of the INDUCTIVE DETECTORS, the **GL-14** CAN BE placed near non-moving-metal without interference.

FEATURES:

- * No SAW-CUTTING Required
- * Mounts Easily With Plastic Anchors & Screws
- * Compatible With Other Inductive Detectors \ Amplifiers
- * Resistant To Floor Vibration
- * Activation Light Indicator
- * 24" Plus Sensing Range
- * Break-Away Design Ensures Against Damage To Vehicle And **GL-14**

REQUIREMENTS:

An Inductive Detector \ Amplifier (See: Inductive Control Box, Inductive Detector)
24 Volt AC Or DC Input For Indicator Light
Anchors & Screws For Mounting

OPTIONS:

Longer Cord (25' Standard). Add The Total Number To The End Of The Model Number When Ordering. Example: A **GL-14** With A 50' Cord Would Be: **GL-14-50**
Larger Sizes Available (For Special Applications & Increased Sensing Distances)

GENERAL APPLICATIONS:

CARWASH ENTRANCE OR GATE SWITCH
ANTI-COLLISION CONTROL SENSOR
CAR COUNTER
ROBOTIC ARM DISTANCE SENSOR CONTROL

DOUBLE INDUCTIVE LOOP STAND

GL-24



THE BEST IN-GROUND LOOP ALTERNATIVE

The **GL-24** is a stand with wire windings that function as the sensor \ loop for an inductive loop system in place of a saw-cut-loop. The **GL-24** has two loop sensors built into one stand to cover a higher area for semi-truck or train sensing applications.

This upright 'loop' has a "cone sensing effect" that can be used for accurate measurements of a vehicle. With a sensing range of 24"+ the **GL-24** picks up the framework of a vehicle, and not just the outside skin. This gives a constant pickup even on non-metal fenders. To

protect the **GL-24** from accidental collisions the stand is equipped with a break-away-base that absorbs the impact and saves the **GL-24** and vehicle from damage. The **GL-24** is made with a PVC plastic and underground direct burial cable. This allows the unit to stand up to sunlight, water, chemicals, scalding \ freezing temperatures. When wired, a bright incandescent light located at the top of the **GL-24**, signals when the system is activated. Due to the nature of the INDUCTIVE DETECTORS, the **GL-24** CAN BE placed near non-moving-metal without interference.

BENEFITS:

- * No Saw-Cutting Required
- * Mounts Easily With Plastic Anchors & Screws
- * Compatible With Other Inductive Detectors \ Amplifiers
- * Activation Light Indicator
- * 24" Plus Sensing Range
- * Break-Away Design Protects Against Damage To Vehicle And **GL-24**
- * Made Of Chemical Resistant PVC Material

REQUIREMENTS:

An Inductive Detector \ Amplifier
24 Volt AC Or DC Input For Indicator Light
Anchors For Mounting (4)

OPTIONS:

Longer Cord (25' Standard Sold In Sections Of 25').
Add The Total Number To The End Of The Model Number When Ordering
Example: A **GL-24** With A 50' Cord Would Be A GL-24-50)
Larger Sizes Available For Special Applications And Increased Sensing Distances

GENERAL APPLICATIONS:

Truck \ Train Wash Entrance, Gate Switch, Damage Control Sensor
Vehicle Counter, Robotic Arm Distance Sensor Control



THE BEST IN-GROUND-LOOP ALTERNATIVE!

The **GL-SM8-B** is an inductive loop sensor that is made to take the place of floor cut loops. It has many advantages - small size, fast installment time, movable, and water proof! The **GL-SM8** has proven to be the most dependable and accurate floor loop that can be used.

The **GL-SM8-B** has a cone sensing effect that allows for accurate measurement of a vehicle. With a high sensing range of 30+ inches, it gives a constant pickup, even on factory set 4 wheel drive vehicles.

FEATURES:

- * Compact In Size - 24" L x 24" W x 5/8" H
- * 50 Foot Lead In Cord
- * No Saw-Cutting Required
- * Made Of Durable Polyethylene
- * Compatible with Other Detector Systems
- * Not Affected By Water, Vapors or Freezing Temperatures
- * Cord Protection Cover 24" Long Included (Extra Available)
- * Mounting Plastic anchors and screws included

REQUIREMENTS:

Inductive Detector \ Control Box (See GL-001, GL-RO-3, GL-DB1, GS-DCX1 & 2)

OPTIONS & PART NUMBERS:

Custom Logo GL-SM8-BSL (Call for Information)

With Extra Cord Simply Add Amount To End Of The Number Example: GL-SM8-B

With Extra 25' Cable = GL-SM-8-75 Extra Cord (By itself, Part GS-UGC2-xxx)

(Insert The Footage For-xxx)

Extra Cord Protectors (See: Cord Cover)

GENERAL APPLICATIONS:

Vehicle Presence For Bay, Parking, Traffic, Car Counter

Sensor (For Anti-collision \ Damage Control, Entrance, Counter, ETC.)

Parking Gate \ Automatic Door Control



THE BEST IN-GROUND-LOOP ALTERNATIVE

The **GL-CC625** is an inductive loop track that is an alternative of saw cut loops. It has many advantages, clean finish, fast installment time, movable, and water proof! The **GL-CC625** has proven to be one of the most dependable loops that can be used for surface mount conditions.

The **GL-CC625** With a high sensing range of 30+ inches, it gives a constant pickup, even on Raised 4 wheel drive vehicles.

FEATURES:

- * Size – 72” L x 34” W x 5/8” H
- * Side Channel For Lead In Cord
- * No Saw-Cutting Required
- * Made Of Durable Polyethylene
- * Compatible With Most Loop Amplifiers
- * Not Affected By Water, Vapors or Freezing Temperatures
- * Cord Protection Cover 48” Long Included (Extra Available)
- * Can Be Mounted With Anchors Or Glued



Corners of the track are press fitted with plastic holding pieces that hold the unit together while installing it. Wire is run and held by channels as shown

REQUIREMENTS:

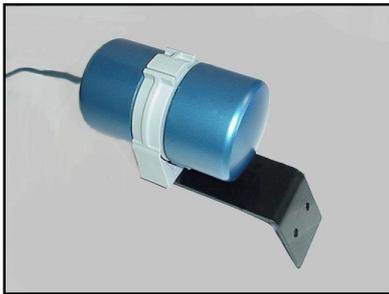
Inductive Detector \ Control Box (See GL-002, GL-RO-3, GL-DB1)
16 AWG MTW Stranded machine grade wire for loop windings.

OPTIONS & PART NUMBERS:

Extra Cord Protectors (See: Cord Cover GL-CCB)

GENERAL APPLICATIONS:

Vehicle Presence For Bay, Parking, Traffic, Car Counter
Sensor (For Anti-collision \ Damage Control, Counter, ETC.)
Parking Gate \ Automatic Door Control



A SENSOR THAT WORKS!

The **GL-IMPS** is an inductive loop sensor that works the same way as its counterpart the Traffic Loop. Designed for locating conveyor dollies (Rollers) in a car wash application.

Using an Inductive amplifier (**GL-001**) this small sensor has large range for metal detection. A four-inch target range compared to its 2" diameter makes it unique. It is unaffected by dirt, chemicals, freezing temperatures and surface accumulations such as ice and grime. This gives it an advantage over other sensors in hostile environments.

Benefits:

- * No moving wear parts
- * No cleaning maintenance
- * Unaffected by ICE and GRIME accumulation
- * "Sees" through Dirt, Ice, Water, Steam
- * Four-inch sensing range
- * Small in size
- * Rugged PVC construction
- * Mounting bracket included
- * Long 25' cord
- * Easy to install

REQUIREMENTS:

Inductive Amplifier (Detector See: **GL-001, GL-DB1**)

GENERAL APPLICATIONS:

Roller Location Switch for Roller-Up Control

Works with car wash controllers, DRB, COMPUWASH, ETC.)



STOP EXPENSIVE DAMAGES!

The GS-DCX1 prevents a car coming off the conveyor, from colliding with a car that hasn't left the conveyor exit area. This happens if the exiting car stalls, is obstructed, or is forgotten.

The system is set up to "watch" the traffic at the exit of the wash. If a collision possibility is present, the system will go into action to shut down the conveyor before the cars collide.

EXAMPLE OPERATION SEQUENCE: (The Scenario)

The first car is run through the wash. It activates the end sensor as it sits at the end of the conveyor. The second car is coming down the conveyor to the exit end. The computer channel, for the 2nd car, activates before the rear of the sitting car. The DCX1 shuts down the conveyor and alerts the employees of the conveyor shutdown. The computer channel is set up as a sequential function. The DCX1 will automatically ignore the signal if there is no car at the end of the conveyor. It will continue to do so until the computer channel stops signaling. This allows for overlap of the computer function and the sensor pad for longer vehicles.

- 1- The first car is at exit activating the end sensor. (Should have driven away)
- 2- The second car is coming to a critical point on the conveyor where the cars will hit. (This is where the computer channel turn on point is.)
- 3- The computer channel activates.
- 4- The **ANTI-COLLISION** system will shut the conveyor down, before the cars hit. The beeper signals for 8 seconds. The employees have two indicators the beeper and the Super-Bright LED, to tell why the conveyor is stopped.
- 5- When the first car drives away the system restarts the conveyor (if wanted).

FEATURES:

- * Can Accommodate Any Standard Interlock system.
- * All Outputs Are 10amp Rated.
- * Extra Outputs For extra functions: STOP & GO LIGHTS, AIR DOOR, SIGNS, ETC.
- * L.E.D. Indication For System Status: Green- No Cars, Yellow- Car At Exit, Red- Conveyor Shut Down, Power, Relay On, And Sensor Activation.
- * Can be wired with an exit door safety switch to protect a closed exit door.
- * Loud 85db Warning beeper.
- * External Reset For Inductive Sensors.
- * All P.C. Board design. Fast Installation.

REQUIREMENTS:

One Inductive Sensor (See Inductive Sensor GL-14 or GL-SM8) The inductive sensors can be an Inductive Stand, Pad, Inground, Preformed or a Floor Cut Loop
110vac 1 Amp Power Constant

Wired Into A Stop \ Start Station, Interlock On \ Off Switch Or A Hydraulic Solenoid Valve To Control The Conveyor

One Computer Channel (Signal for the 2nd car)

OPTIONS:

EXTRA RELAY FOR AUXILERY OUTPUT

GENERAL APPLICATIONS:

CAR WASH ANTI-COLLISION FOR END OF CONVEYOR

STOP EXPENSIVE DAMAGES!

The **GS-DCX2** Prevents a car coming off the conveyor, from colliding with a car that hasn't left the conveyor exit area.

The system is set up to "watch" the traffic at the exit of the wash. If a collision possibility is present, the system will go into action to shut down the conveyor before the cars collide.



EXAMPLE OPERATION SEQUENCE: (The Scenario)

The first car is run through the wash. It activates the 1st sensor, Then the 2nd sensor. They both can be activated at the same time in this order, 1st then 2nd. Finally the car stops at the exit end of the wash. Only the 2nd sensor of the **ANTI-COLLISION** is active at this point. The second car is at this point coming down the conveyor to the exit end.

- 1- The first car is at exit activating the second sensor. (Should have driven away)
- 2- The second car is coming to a critical point on the conveyor where the cars will hit. This is where the 1st sensor is placed
- 3- The second car activates the 1st sensor.
- 4- The **ANTI-COLLISION** system will shut the conveyor down, before the cars hit. The beeper signals for 8 seconds. The employees have two indicators the beeper and the Super-Bright L.E.D., to tell why the conveyor is stopped.
- 5- When the first car drives away the system restarts the conveyor (if wanted).

The 1st sensor (LOOP) can be replaced with a computer function, (SEE control box DCX1). If both sensors (LOOPS) are needed then the control box should be a DCX2.

FEATURES:

- * Can Accommodate Any Standard Interlock system.
- * All Outputs Are 10amp Rated.
- * Extra Outputs For extra functions: STOP & GO LIGHTS, AIR DOOR, SIGNS, ETC.
- * L.E.D. Indication For System Status: Green- No Cars, Yellow- Car At Exit, Red- Conveyor Shut Down, Power, Relay On, And Sensor Activation.
- * Can be wired with an exit door safety switch to protect a closed exit door.
- * Loud 85db Warning beeper.
- * External Reset For Inductive Sensors.
- * All P.C. Board design. Fast Installation and repair.

REQUIREMENTS:

TWO Inductive Sensors (See Inductive Sensors GL-SM8-B or GL-14)
110vac 1 Amp Power Constant
Wired Into A Stop \ Start Station, Interlock On \ Off Switch Or A Hydraulic Solenoid Valve To Control The Conveyor

OPTIONS:

EXTRA RELAYS FOR AUXILARY OUTPUTS

GENERAL APPLICATIONS:

CAR WASH ANTI-COLLISION FOR END OF CONVEYOR
ONE LANE TRAFFIC CONTROLLER



A Versatile Roller-Up System

The **GRU-500-RX** is a programmable roller up controller. It has more flexibility than any off the shelf roller controller. It can be programmed for a rear wheel or front wheel push conveyor setup. The system can bring up the amount of rollers wanted, in any order up to 9 rollers.

The GRU-500-RX has a built in LCD readout screen and keypad that makes it very user friendly. It allows onsite editing of the function programming. By setting a few simple parameters the GRU-500-RX can be made to sequence any combination of rollers. If in the future, the roller up function needs to be changed, the programming can be altered as needed. Since the parameter programming is battery protected, it is unaffected by power loss.

COMPARE THESE FEATURES WITH ANY OTHER ROLLER UP SYSTEM

- * Automatic Roller Guard - Forks Will Not Activate Or Deactivate With A Roller On Them
- * Uses Only One Roller Location Switch
- * Rollers Controlled Up/Down In Any Order (2UP*2DOWN*2UP, 1UP*2DOWN*1UP, ETC...)
- * On Location Programming! LCD Screen And Program Keypad Are Built On Board.
User Friendly Menu Interface For Easy Setup.
- * LCD readout screen for programming parameters. L.E.D. for Main Inputs and Output
- * up to 9 rollers controlled
- * Auxiliary output controllable for any point in the sequence with its own adjustable delay built in.
- * Jump to next cycle # for next vehicle to save loading time. No more waiting on cycle to end.
- * Can be fully automatic with tire switch. (Sold separately)

REQUIREMENTS:

Roller Up Air Solenoid - For Activation Of Roller Up Forks. 110vac or 24v air solenoid can be used power is supplied by system.

Roller Switch - To Signal The ROLLER-UP SYSTEM, To Find Location Of The Rollers. (GS-RLS-1)

OPTIONAL:

Air Switch or Tire Switch - For Location of Rear Wheels or Automatic Activation

GENERAL APPLICATION:

Roller-Up Controller For Front and Rear Wheel Push

Roller-Up (Roller-Up Fork) Electronic Control



EXTEND THE LIFE OF ROLLERS!

The ROLLER GUARD extends roller life by eliminating roller fork jams that DAMAGE and DETERIORATE rollers.

The unit can be programmed to track roller on activation and/or deactivation placement! Ties into most roller up systems with little or no modification. Saves CONVEYOR DRIVE, CHAIN, ROLLERS and ROLLER FORKS from damage and fatigue.

BENIFITS:

- * Three Programmable Roller Fork Protection Configurations:
(Up and Down) (Up only) (Down only)
- * Low voltage system for safe operation (24vac)
- * Total bypass system if controls fail
- * Compatible with most roller up controllers
- * Not affected by conveyor speed or stopping
- * Eliminates wasted employee time watching the rollers clear the forks.
- * Protects and extends the life of Chain, Drive Unit, Rollers and Roller Forks
- * Watches and protects during roller Up and Down operation
- * Fuse protected for system and air solenoid

REQUIREMENTS:

ROLLER-UP SYSTEM-Any electrical arrangement that activates an air solenoid for rollers to come up.

Power - 110vac 50-60 Hz at 110 watts

Input - (From a Roller Up System) Dry set of contacts (Common and Normally Open) Activated upon roller demand.

Roller Switch - To signal the ROLLER GUARD SYSTEM, Sets the location of the rollers. See the GS-RLS

Roller-Up Air Solenoid - (Existing) Wired into the ROLLER GUARD for controlled activation of roller up forks. 24vac or 110vac

GENERAL APPLICATION:

ROLLER PROTECTION AGAINST ROLLER AND ROLLER-UP-FORK BINDING



IT KEEPS YOUR WASH RUNNING!

The AUXILIARY PULSER SYSTEM (GP-200-ST) is a pulser system that provides a car wash computer with a safe, reliable pulse with which to track the conveyor movement, with an **AUTOMATIC EMERGENCY BACK UP PULSE GENERATOR**, in case of pulser failure.

Without a pulse switch, the only choices are to close down for repairs, or run the computer functions on bypass. Either choice is costly. With the AUXILIARY PULSER you don't have to make either choice, your car wash can function when the MAIN PULSER is disabled. The AUXILIARY PULSER SYSTEM can replace most computer pulse setups. The PULSE GENERATOR can replace the normal pulse signal, in the event of a pulser switch \ system failure. Pulser cord damage, a broken activation arm, or pulser switch damage \ misalignment, are some examples that can cost you hours of business to get the pulser back in working order.

The Auxiliary Pulse is preset to the flash rate by a potentiometer. The same adjustment is set up for the rise and fall times of the pulse. It is adaptable to any standard proximity switch (two-wire AC or DC, three-wire DC-NPN or PNP). The unit has its own 24v transformer to run the proximity switch and the pulser relay. The wires going to the pulser switch do not have to be shielded. Shielding is usually needed with the newer car wash microcomputer controllers. With the pulser control box, the computer is wired to a set of relay contacts. The computer is isolated from possible damage if the pulser switch or cord is damaged. The pulser circuit is fuse protected. An indicator light is on the control box to show when the pulser relay is activated. With the light indicators, any problems are quickly found. Most computer problems arise from a faulty pulse. The GP-200ST was designed to give years of reliability and computer pulse protection.

FEATURES:

- * Adaptable To Most Existing Pulser Switches
- * Works With Low Voltage Proximity Switch
24 Volt (AC, DC-NPN or DC-PNP)
- * Isolates The Computer From The Pulser Switch
- * Light Indicator On Pulse Activation
- * Can Utilize The Wires From Your Limit Switch (2)
- * Separate On \ Off Controls And Indicators for
Auxiliary Pulse And Normal Pulse Operation
- * Auto Pulse Works With The Interlock

SPECIFICATIONS AND REQUIREMENTS:

Power: 110VAC 1AMP Max (constant)

Power Output For Proximity Switch: 24V AC or DC (Selectable)

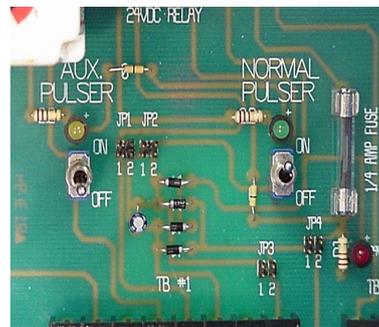
Interlock Circuit: A Set Of Normally Open Interlocked Contacts.

For Interlock Signal power is 110vac in and out of control box).

PROXIMITY SENSOR: (SOLD SEPARATELY SEE: Proximity Switch GS-IPS-LA)

GENERAL APPLICATIONS:

Computer Pulse Input (Pulser Switch)



SHOWN: Close up of board
Auxiliary and Normal Control
Switches and Pulse Switch
Select Jumpers

INDUCTIVE PROXIMITY SWITCHES

GL-IPS



GIVE YOUR COMPUTER A NEW BEAT!

The GS-IPS is an inductive proximity sensor that provides a car wash computer with a safe, reliable pulse with which to track the conveyor movement.

If the computer is switching DC current, a control box will be needed if using an AC Switch. The control box (SEE PULSER SYSTEMS) has its own 24v transformer to run it and the AC proximity switch. The computer is then wired to the control box relay contacts. This way the computer is protected from the pulser switch. The AC proximity switches use two wires.

When a DC proximity switch is used directly with a computer, the computer is not protected. Some of the DC models need three wires from the switch to the computer, positive, negative and a return.

GENERAL INFORMATION:

AC Switching - To Switch `AC' Alternating Current No Polarity only IN and LOAD

DC Switching NPN TYPE - To Switch `DC' Direct Current Has Polarity Positive And Negative NPN Is A Negative (-) Switched Return From the Proximity Switch

DC Switching PNP TYPE - To Switch `DC' Direct Current Has Polarity Positive And Negative PNP Is A Positive (+) Switched Return From the Proximity Switch

Our inductive proximity sensors are solid state electronics. There are no moving parts to wear out, no physical contact needed for activation and no contacts to bounce or arc. This switch is epoxy potted, making it impervious to most liquids, chemicals and corrosive agents. A metal bar such as ALUMINUM or STEEL can activate the switch. The bar itself does NOT have to be MAGNETIZED. The L.E.D. on the back of the switch will light up when activated. This may be useful in adjusting to the correct sensing distance.

FEATURES:

- * LED indicator on rear of sensor
- * Barrel type chrome plated brass, threaded, epoxy potted.
- * Application suitable for over/under and surface conveyors
- * 3' CORD

REQUIREMENTS:

Metal activation tab (STEEL, ALUMINUM)
Fabrication of Conveyor \ Equipment For Target Metal

OPTIONS:

LONGER CORD (SPLICED ON)
HOLDING BRACKET
FRONT END PROTECTORS
PIPE ADAPTERS (SOME TYPES)

TYPES AVAILABLE: ORDER BY MODEL

Model #	Size	Range	Wire #	Voltage	Use Bracket
GS-IPS-LA *	1-3/4"	3/4"	TWO	20-250VAC	GS-TLPB
GS-IPS-SA	1-1/16"	1/4"	TWO	20-250VAC	GS-TSPB
GS-IPS-SDN	1-1/16"	1/4"	THREE	10-20VDC	GS-TSPB

All Switches 500Ma Max Switching Current

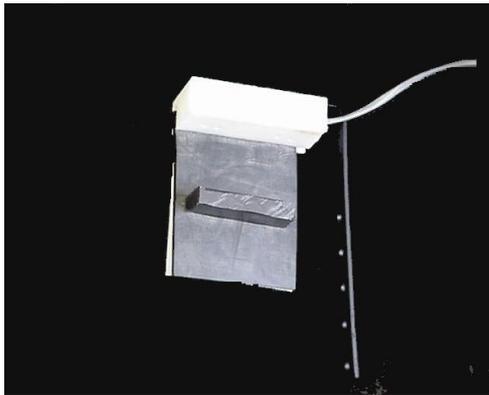
* Standard Proximity Switch Used For All Goodlin Type Pulser Systems

GENERAL APPLICATIONS:

COMPUTER PULSER SYSTEM (PULSE CLOCK INPUT SWITCH)

ROLLER LOCATION SWITCH

GS-RLS



DESIGNED TO LAST!

The **GS-RLS** is a proximity type control switch built into a rubber paddle to replace the function of a whisker or limit switch. It is the ideal sensor switch for sensing fairly large moving objects in dirty environments. This makes it the perfect sensor for the conveyor roller dollies in a car wash application.

The **GS-RLS** provides high performance in locations that most switches fail. By utilizing a rubber type paddle for the hinge or swing action the **GS-RLS** is immune to fluids, freezing temperatures, dirt and other factors that renders other switches useless. The switching system is an enclosed reed proximity type, which has a 10,000,000 operational switch life. The reed and magnet is enclosed and protected in a polyethylene plastic that is immune to the elements. The **GS-RLS** has a 50' of lead in cord. With the **GS-RLS**, constant replacement and maintenance cost will drop, thus saving money.

FEATURES:

- * Made Of Polyethylene material
- * Joint free design, rubber paddle works as the moving principle
- * 50' lead in cord
- * Easy To Adapt
- * Mounting Bracket included

SPECIFICATIONS:

Switch Type -Proximity, magnetic pickup

SIZE - 5"H x 4"L x 2"W

CONTACT RATING: Dry, Comm, Normally Open 120V 1Amp Max (GS-RLS-1 ONLY) Dry, Comm, Normally Closed 120V .5 Amp Max (GS-RLS-2 ONLY)

OPTIONS:

NORMALLY OPEN SWITCH (GS-RLS)

NORMALLY CLOSED SWITCH (GS-RLS-2)

SPECIAL SIZES

LONGER LEAD IN CABLE (BY 25' SECTIONS)

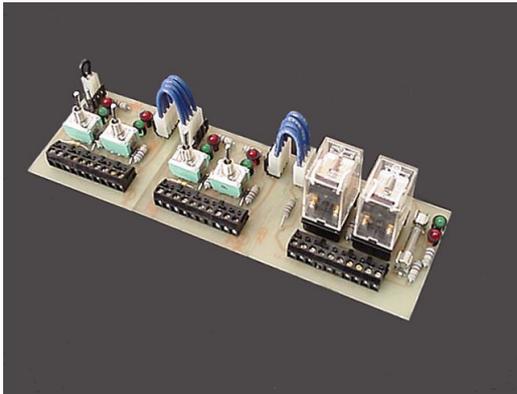
GENERAL APPLICATIONS:

ROLLER LOCATION SWITCH FOR ROLLER UP CONTROLS- Works with computer controlled roller-up functions (Ex: DRB's Tunnel Watch)

DOOR UP\DOWN LOCATION SWITCH

EQUIPMENT CONTROL SWITCH (SAFETY, STOP, UP, DOWN, ETC.)

PULSER SWITCH (FOR COMPUTER)



SOLVE INTERLOCK PROBLEMS WITH A NEW INTERLOCK CONTROLLER!

The **GS-INT-10** functions as a latch type stop-start relay circuit that monitors control stations, such as: stop-start, low fluid levels, safety trip switches, etc.

Some of the new controllers now have built in interlock controls but they still don't tell you how the interlock is working or what needs to be repaired. This system will!

The system uses a four-wire arrangement (2 stop & 2 start) that is pulled to each individual station. All inputs are monitored by a lighted L.E.D. that indicates an activated switch. By the indication of the L.E.D. any broken or activated button, safety, or low level switch can be easily located. All stations or Station areas can be checked and bypassed when there is a fault. This keeps the interlock working when it would normally require extensive down time for trouble shooting and repair.

FEATURES:

- * When bypassed, all power is removed from the station.
- * Base unit handles 4 stations (2 I/O cards).
- * Expandable by 2 stations a card up to 50 stations (25 I/O cards).
- * Enclosures are available. Call for quote and sizing information.

SPECIFICATIONS AND REQUIREMENTS:

Master Card = 3.5"L x 2.75"W x 2"H
I/O Card = 2.75"L x 2.75"W x 1.75"H
Power Supply = 3.5"L x 2.75"W x 2.5"H
Fits in a Snap Track = 3'L (max) x 2.878"W x .75"H

24VDC 1AMP(Max) Input Power if no power supply is ordered.

All Inputs To Be A Dry Contact Type

Normally Open (Start), And Normally Closed (Stop) Type Controls

All signals must be a Dry Contact Type - Starts and - Stops

Interlock go signal to be limited to a single Dry Contact = SPDT 3 amps 110v/24v

Enclosure for cards if not ordered

All Cards fit into Snap Track (supplied)

OPTIONS:

Power Supply Card

I/O Cards (2 Stations Per Card)

Enclosure for system (made to order)

Fiberglass Stop-Start
Stations are also available!

Last longer than steel
units.

Rated Nema 4x



GENERAL APPLICATIONS:

Car Wash Control To Start And Stop The Conveyor And Equipment

Interlock Control \ Monitor For Equipment With Safety Switches



Take Control of Hand Applied Chemicals!

The GS-WBT Controls and counts the chemical dispensing services at the entrance of the car wash.

Using a unique timer circuit, the service timer can control and count the service of hand applied chemicals to a vehicle. Typically, when wired into dispensing unit (a solenoid in line with a pressure chemical line or pump) it controls the chemical application time. An example of this would be a tire or a wheel cleaner. The attendant pushes the enable button on the control box and a preset timer allows the chemical to be dispensed. Each time the timing circuit is activated counter counts up. This keeps a record of the number of services given. Limiting the time for application ensures that only that vehicle receives the service. Now a truer figure of the amount of services can be obtained without relying on the attendant.

Features:

- Power 110vac at .5 amps max
- Output: 110vac or 24vac for chemical control solenoid(s)
- Small size: only 6x6x4 Fiberglass Nema 12X enclosure
- Timer \ Counter can only be activated once per cycle
- Push button(s) on box
- Clear cover makes it easy to read counters. No need to open box
- Box can be locked with a pad lock
- Counters are non-reset 5 digit Electro-mechanical
- Controls and outputs are Solid State design

Requirements:

- Solenoid for chemical flow control
- 110vac power (recommended constant power, not interlocked)

Options:

- GS-WBT1 is a single counter unit for one chemical application
- GS-WBT2 is a double counter unit for two chemical applications
- Chemical Applicator Unit

General Applications:

- Any hand applied chemical done by a solenoid \ pump unit-
- Tire chemicals, Bug remover



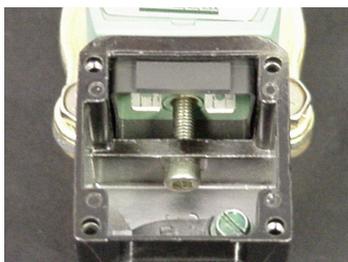
Control the Flow!

ASCO series 8210-valves are a 2-way normally closed internal pilot-operated solenoid valve designed for general service.

The added wiring box makes for easy electrical hookup and greater wear ability in hostile environments.

BENEFITS:

- * Made for harsh environments (4X rated)
- * Low Voltage 24VAC for Safety
- * Easy Hook-Up and Wiring (Spade Terminals, Wiring Enclosure and a ½ threaded Electrical Hole)



The solenoid enclosure protects the electrical connections. Power is connected by standard quick connect type terminals. Ground is by a termination screw.

REQUIREMENTS:

24VAC Power (GS-LC1 SUPPLIES THE 24VAC POWER IF USED)

Pipe / Hose for Hook-Up (Plumbing)

Electrical Hookup

CLEAN Fluid for transferring (Not reclaimed or dirty)

IMPORTANT: SOLENOID SHOULD BE MOUNTED WITH COIL IN THE UPRIGHT DIRECTION.

FAILURE TO DO SO MAY SHORTEN OPERATIONAL LIFE

SPECIFICATIONS:

Voltage: 24vac 60Hz 6.1 watts

Pressure Rated: 5-125 PSI for Air, Inert Gas, and LT Oils

Pipe size: 3/4" NPT

Environmental Rating: 4X

GENERAL APPLICATION:

GSI standard stock item solenoid valve for GS-LC1 (level control) Part # GS-SOL-2434



Nothing Beats Energy Release!

Energy Release commonly known as **ER**, is the original and first true anti-friction metal conditioner. **ER** works on an entirely different principal than other additives, and incorporates a “heat activated” chemical technology to form an extraordinarily smooth surface and accomplish unparalleled results.

The age-old problem with friction between moving metal parts has been addressed in many ways by many different additives over the years. Many of these products attempt to give more muscle or viscosity to the existing oil, and others try to coat or plate the metal with various substances. Many of these products fall short because the issue today is not that oils need help, but simply that metal is rough (microscopically speaking) and **ER** addresses the real problem by modifying and smoothing the rough surface of the metal itself. That is the reason it works better than any other additive, **ER** treats the metal itself rather than the oil.

ER contains a **ferrous-based Ion** that actually becomes a part of the molecular structure of any ferrous (iron) containing material. When activated by heat, the ion in **Energy Release** is “looking for a home” and will modify the molecular structure of ferrous metals. So **ER** actually seals the rough pores and smoothes the asperities of the metal surface without changing any tolerances. This process dramatically reduces the coefficient of friction and wear between moving metal parts. To sum up, **ER** will increase the *efficiency* and *longevity* of the moving parts without changing any specifications.

PRODUCT CLARIFICATION:

- Energy Release is not a lubricant.
- Energy Release does not contain PRFE (Teflon**) – moly - graphite-petroleum distillates, metals or other fortifiers.
- Energy Release is designed to be carried by existing fluids: motor oil, transmission oil gear lube, hydraulic fluid, Freon, water, etc.
- Energy Release works best under T-H-P (Time-Heat-Pressure)
- Energy Release has a definite residual effect on treated surfaces, even if the surface is dry after treatment.

BENEFITS:

- ER is Non-toxic, Biodegradable and Nonflammable
- Lubricants can carry ER.
- Pump Equipment, Engines, Transmissions, Compressors all increase in efficiency and longevity when treated with ER
- Performance increased by Less Energy Usage, Lower Operational Temperature, Greater Longevity and Power.
- Added Protection from “dry run” damage. ER has a residual effect
- Available in different ‘Packages’ 24oz, 32oz, 1gal, 5gal and grease cartridges

GENERAL APPLICATIONS:

Increase power, efficiency, longevity, and overall performance in Pump Equipment, Engines, Transmissions, Compressors, etc.

ER works in air compressors for reducing temperature and increased performance.

** Teflon is the registered trademark of Dupont for PTFE products. All brand and product names are trademarks or registered trademarks of their respective holders.

AIR SWITCH

GS-AS



DO IT WITH AIR!

The **GS-AS** is a diaphragm type air pressure switch that is used as a momentary input switch for controls.

The **GS-AS** has a rubber diaphragm that won't stick or wear. The SPST contacts are 10 amp rated. A set-screw can adjust the sensitivity. The built-in mounting bracket and tail lead in wires make it simple to install.

FEATURES:

- * Easy To Mount (Built In Adjustable Mounting Bracket)
- * Small Size - Fits In A 3" X 4" Area
- * Simple To Adjust (Turn Screw Under Snap Cover)
- * Diaphragm Take Up (Activation)
- * Fits Standard Tire Air Hose

OPTIONS:

- Air Hose (Sold Per Foot)
- Poly Tubing (Sold Per Foot)
- Tire Switch

GENERAL APPLICATIONS

- Tire Spray Applicators
- Control Activator Switch For Water, Soap, Foamer, Wraps, ETC...
- Replacement For Driveway Air Signal Switches



SHOWN WITH COVER OFF

TIRE SWITCH

GS-TS2



DO IT WITH AIR!

The **GS-TS2** is an air type activator. It drives a puff of air for a pressure switch that gives out momentary contact signal. This then can be used for a control activation or tire input.

The 2 holder blocks keep the activation hose in place and enable it to hover 1/4" off the floor. This keeps dirt and grime from getting trapped under the hose thus increasing hose life and dependability. When connected with a poly line this will be a very dependable activator for any air switch type application. The compression of air from the hose will travel without loss to the air switch mechanism insuring a reliable puff of air with every tire hit.

FEATURES:

- * Easy To Mount (1/4" Mounting holes, Screws and Plastic anchors)
- * Low profile – less then 1" High
- * Uses Standard Tire Air Hose (included)
- * Fitting Fits Standard 1/4" Poly Hose
- * All Plastic Construction! Totally Corrosion free!
- * Blocks taped to 1/4 NPT for easy modification

OPTIONS:

Air Switch (See: GS-AS)
Extra Air Hose
Poly Tubing



GENERAL APPLICATIONS

Main Controller Tire location.
Tire Spray Applicators
Roller-Up Controls (Automatic or Rear Tire Applications)
Blocks can be used for chemical line holders on walls.

COUNTER BOX – AIR ACTIVATED

GS-ASC1



DO IT WITH AIR!

The **GS-ASC1** is a diaphragm type air pressure switch that is used as a momentary input switch that activates a counter for car counts.

The **GS-ASC1** has air switch that has a rubber diaphragm that won't stick or hang up. The SPST contacts are 10 amp rated. A setting screw can adjust the sensitivity. The built-in counter that is battery operated makes it simple to install.

FEATURES:

- * Easy To Mount * Small Size - Fits In A 3" X 4" Area
- * Simple To Adjust (Turn Screw Under Snap Cover)
- * Diaphragm Take Up (Activation)
- * Fits Standard Tire Air Hose 10' of hose included
- * 8 digit, resetable counter
- * Battery operated (10yr lithium battery)

Note:

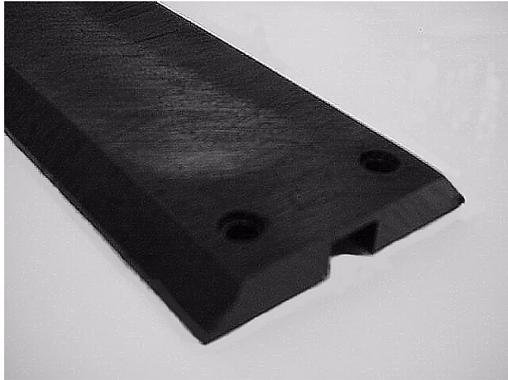
Because of each vehicle hitting the hose twice the count must be divided by 2 for the accurate count of vehicles passing. No time delays used. This insures an accurate count.

OPTIONS:

- Air Hose (Sold Per Foot)
- Poly Tubing (Sold Per Foot)
- Tire Switch (Holds hose in place)

GENERAL APPLICATIONS

Car counter



NO MORE TRIPPING OVER MESSY CABLES OR AIR LINES!

The CC GUARD is a plastic track system that protects and simplifies cables and plastic lines crossing the floor or going up walls.

The bottom of the CC GUARD has a channel in which the cable \ line is placed. Beveled edges give a streamline effect that looks appealing and guards against tripping. The ends can also be beveled to join with other CC pieces to form a uniform and seamless look, as well as a full coverage and protection of the cable or line running through it.

The CC GUARD is made of durable polyethylene plastic and is unaffected by extreme temperatures, chemicals and vehicle traffic.

FEATURES:

- * Low Profile
- * Made Of Polyethylene Plastic For Years Of Service
- * Can Be Run Over By Vehicles
- * Easy To Cut And Retrofit
- * No Need To Cut Or Disconnect Cable \ Line When Installing
- * Mounting can be done with double sided tape, anchors or epoxy
- * Mounted With Plastic Anchors And Screws (NOT INCLUDED)
- * Cord Channel - 3\8" X 1/2" (Larger Channels Are Possible)

MODEL NUMBERS AND OPTIONS:

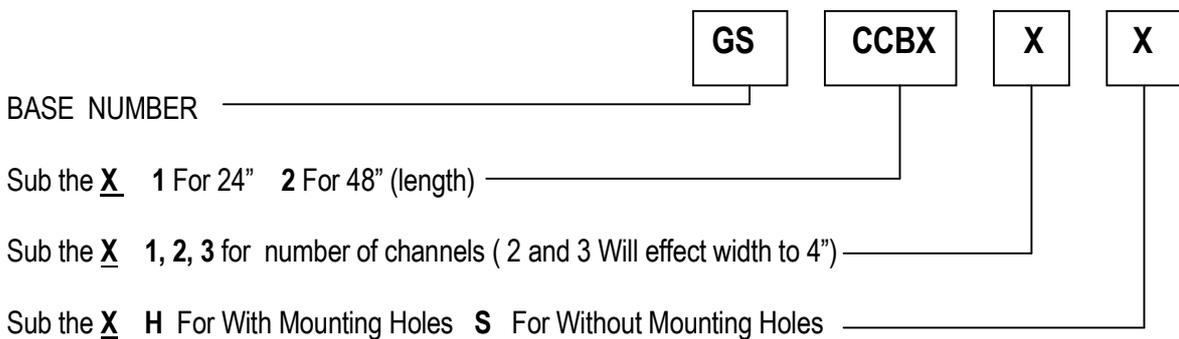
Common Numbers:

COVER 24" LONG (Mounting Holes).....GS-CCB1-1H

COVER 48" LONG (Mounting Holes).....GS-CCB2-1H

COVER 24" LONG (No Mounting Holes).....GS-CCB1-1S

COVER 48" LONG (No Mounting Holes).....GS-CCB2-1S



GENERAL APPLICATIONS:

- Cable Cover For Inductive Pad (GL-SM8) And Inductive Stands (GL-14, GL-24, Etc.)
- Air Line Cover For Roller-Up Air Lines
- Cover For Pulsar Switch Cable
- Electrical extension cord covers for office, warehouse (Can be run over by forklifts)