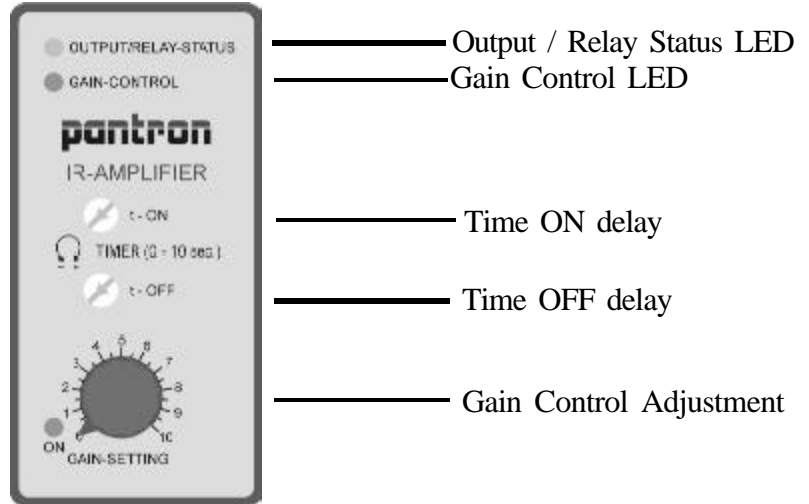


Using Pantron ISG-N34 as a Hydraulic Door Switch

Technical Support (800) 211-9468
Hours Monday-Friday 8:00AM - 5:00PM EST

Safety instructions:
These devices are not to be used for applications where personal safety is dependant upon their function!



Wiring diagram

DIP switch setting

1	2	3	4
System power	Switching mode	Transmit frequency	
20%	ON	dark	ON
		3.5 kHz	ON
		3.8 kHz	ON
100%	OFF	light	OFF
		4.0 kHz	OFF
		4.4 kHz	OFF

The factory setting is marked gray

For hydraulic type doors, using a solenoid to **close** the door when 110VAC is applied, use the following directions. Wire the transmitter and receiver eyes in accordance to the diagram above. Disconnect the input lead that supplies 110VAC to the positive terminal of the solenoid and connect it to pin 1 on the Pantron amplifier. Connect pin 4 from the Pantron amplifier to the solenoid's positive terminal. This will place the Pantron amplifier in series with the solenoid. Now set DIP switch 1 to the OFF position, DIP switch 2 to the ON position and DIP switches 3 and 4 may be left OFF unless multiple sets of photoeyes are used in the same area. Also, adjust the "Time ON delay" by turning the potentiometer completely counter-clockwise. This will ensure that there is no delay opening the door when an object breaks the infrared beam. The "Time OFF delay" may be adjusted to allow a 1 to 10 second window for the door to stay open after the car has moved out from between the eyes.

Be sure the photoeyes are properly aligned and remove any objects between them that may obstruct their view. When the amplifier is plugged in, the "ON" LED and the "gain control" LED should be lit. If the "gain control" LED is lit, please adjust the gain setting to at least "5". To test the system, block the photoeyes fully and run the wash. Under normal operation, the door would be closed by the PLC when 110VAC is added to the solenoid, but with the photoeyes blocked, the Pantron amplifier will break the circuit and keep the door open. If you need to run the wash with the door constantly open, adjust the gain setting to "0". For any questions or technical assistance, please call our toll free number, listed above.