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|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|--------|--------|
| Summary                       | Mounting the rear photo eyes onto the back of the side column                                                                                                                                                                                                               |            |          |        |        |
| Products Affected             | Spiral Doors                                                                                                                                                                                                                                                                |            |          |        |        |
| Key Word Tags                 | Photo Eye, Spiral, Side Frame, Rear Mount                                                                                                                                                                                                                                   |            |          |        |        |
| Tools/Equipment (If Required) | Drill, Drill Bits, Wire Strippers, Terminal Screw Driver, Phillips #2 Screw driver, Side Cutters,                                                                                                                                                                           |            |          |        |        |
| Parts/Materials (If Required) | PHOTOEYE, RECEIVER, TELCO SMR 3215 SG T3-RY R1160145-0 (1ea)<br>PHOTOEYE, TRANSMITTER, TELCO SMT 3000C SG T3 R1160153-0 (1ea)<br>PHOTOEYE CABLE, FOR SG10 TELCO, 15M R1160059-0B00 (2ea)<br>FSCS, M3-0.5 X 16, SS R5550068-0Z04 (4ea)<br>HN, M3-0.5, SS R5550069-0Z04 (4ea) |            |          |        |        |
| Related Media                 |                                                                                                                                                                                                                                                                             |            |          |        |        |
| Author                        | M. Burzlaff                                                                                                                                                                                                                                                                 | Issue Date | 3/2/2016 | Status | Active |

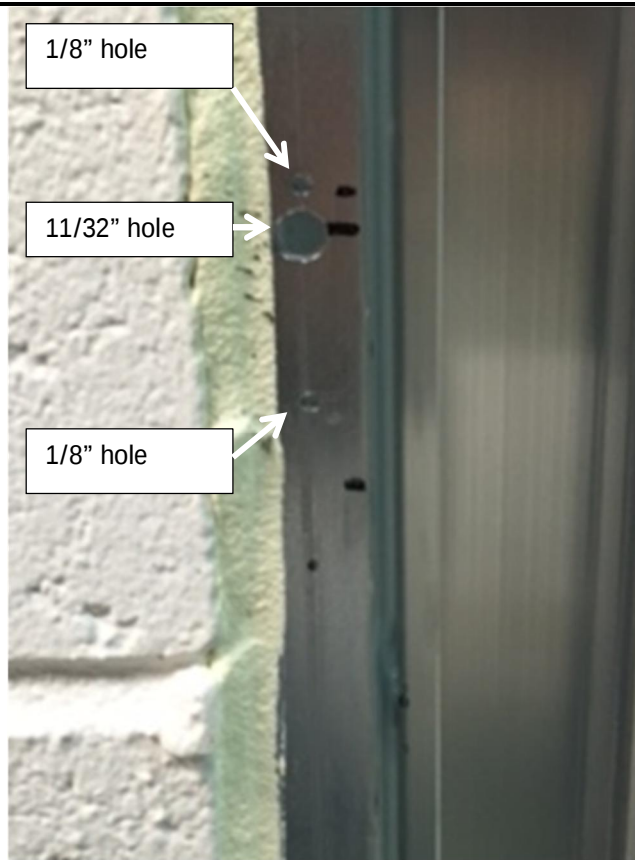
## Please Read The Entire Bulletin Before Proceeding

The purpose of this bulletin is to explain the installation of Telco Spacemaster SG photo eyes into the back flange of the side column when the building design does not allow for rear photo eyes. Rytec requires all spiral doors to have 2 sets of working eyes. This field retro allows for the eyes to be on the side column.



The disconnect must be in the OFF position and properly locked and tagged before performing the next step of the procedure.

1. Remove the weather seal from the back flange of the side column. Do not discard.
2. Measure up from the floor 28" and mark for the eye to have an 11/32" hole. NOTE: If the clip bracket from the guide interferes with this location, adjust above or below as needed.
3. Measure 3/8" up from that mark for the top screw to have a 1/8" hole. Note: You may also just use the eye itself as a template to mark your holes instead of measuring.
4. Measure 1 1/4" down from the 28" mark for the bottom screw to have a 1/8" hole.
5. Make sure to bevel the 1/8" holes to allow flush mounting of the hardware.



6. Repeat the above 4 steps for the opposite side column.
7. Mount the photo eyes in the side column using the nuts and flared bolts. Make sure the rear receiver is on the opposite side column from the front receiver to prevent cross talk.



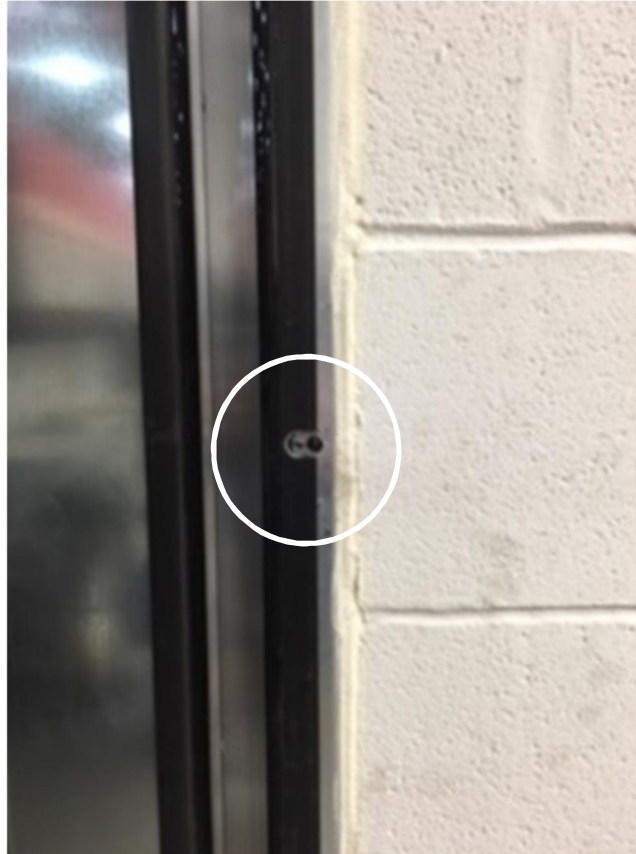
8. Connect the photo eye cables making note of the receiver cable.
9. Route the cable to the bottom of the side column behind the guide clips.



10. Route the cable up through the void in the guide channel.
11. Run the cable up to the x10 box. For the non-drive side it will need to be run across the spreader to get there.



12. Notch the front of the weather seal to allow the eye to not be covered. Notch the back of the weather seal to fit around the photo eye.



13. If there are 2 unused wires from the 10 conductor cable in the x10 box, you can wire the eyes into the x10 box as follows: Brown from the receiver into 1 of the x10 box, Blue from receiver and Blue from emitter into 2 of the x10 box, Brown from the emitter into an open terminal (make note of the wire color), and Black from the receiver into a different open terminal (make note of the wire color). The wire tied with the Brown from the emitter will terminate in 231 in the system 4 controller. The wire tied with the Black from the receiver will terminate in 232 in the system 4 controller.
14. If there are no open terminals, the photo eyes will need to be routed directly to the system 4 controller. The Brown from the receiver terminates in 230, the Brown from the emitter terminates in 231, the Black from the receiver terminates in 232 and the Blue wires from the emitter and receiver both terminate in 234. (See attached Schematic)
15. Restore power and test the operation of the door. Confirm the eyes reverse the door and that they are not cross-talking.
16. Return the door to service.

