

Summary	Retrofit a System 3 controller to a System 4				
Products Affected	System 3 controllers being changed to System 4				
Key Word Tags	Sys4, Retro				
Tools/Equipment (If Required)					
Parts/Materials (If Required)	SEE PACKAGES BELOW				
Related Media					
Author	M. Burzlaff Rev D	Issue Date	3/20/17	Status	Active

Please Read The Entire Bulletin Before Proceeding

*****This bulletin is for internal use only*****

Due to supply issues from our vendors, Rytec is no longer able to source replacement System 3 control boards. As such we now offer a retrofit to convert the old doors to the current System 4 drive and control system.

The components required will vary based on the level of the retrofit and may cover several service bulletins.

Several questions will need to be answered before the quoting process can begin for the replacement controller.

1. Has the motor been retrofit to a system 4 motor?

No matter the brake voltage, the replacement board will be sent with the *contactor*. When checking the motor, make note of the frame size for Arctec, Fast Seals, Pharma Seals, and Turbo Seals.

2. Does it have a Feig Encoder?

The electrical schematic will need to be checked to confirm the encoder. Do not rely on the HFA build. The *FEIG Encoder* is the black rectangle style encoder located on the motor. There were 2 versions. The wireless version had 8 wires. The non-wireless had 4 wires. *Dynapar* encoders use 6 wires. *Dynapar* encoders will need to be upgraded to Feig non wireless encoders. The motor type and frame size will determine which plate or kit is needed. Early spiral doors had either a *Pulse Generator* or *Turck* encoder. This also had 4 wires but wired into terminals 25-28. For the purpose of the retro, treat all non-wireless spiral encoders as a *Feig non-wireless*. Encoder identification can be referenced on the drawings below.

3. Is there an expansion board?

The *expansion board* needs to be manually entered in the board configuration to be factory installed.

4. Is there a Loop Card?

The *loop card* needs to be manually entered in the board configuration to be factory installed.

5. Is this a Freezer Package Door

All freezer doors will fall under the *new enclosure* control box assembly list.

6. Is the incoming supply voltage 575/600v?

All 575/600v doors will fall under the *new enclosure* control box assembly list.

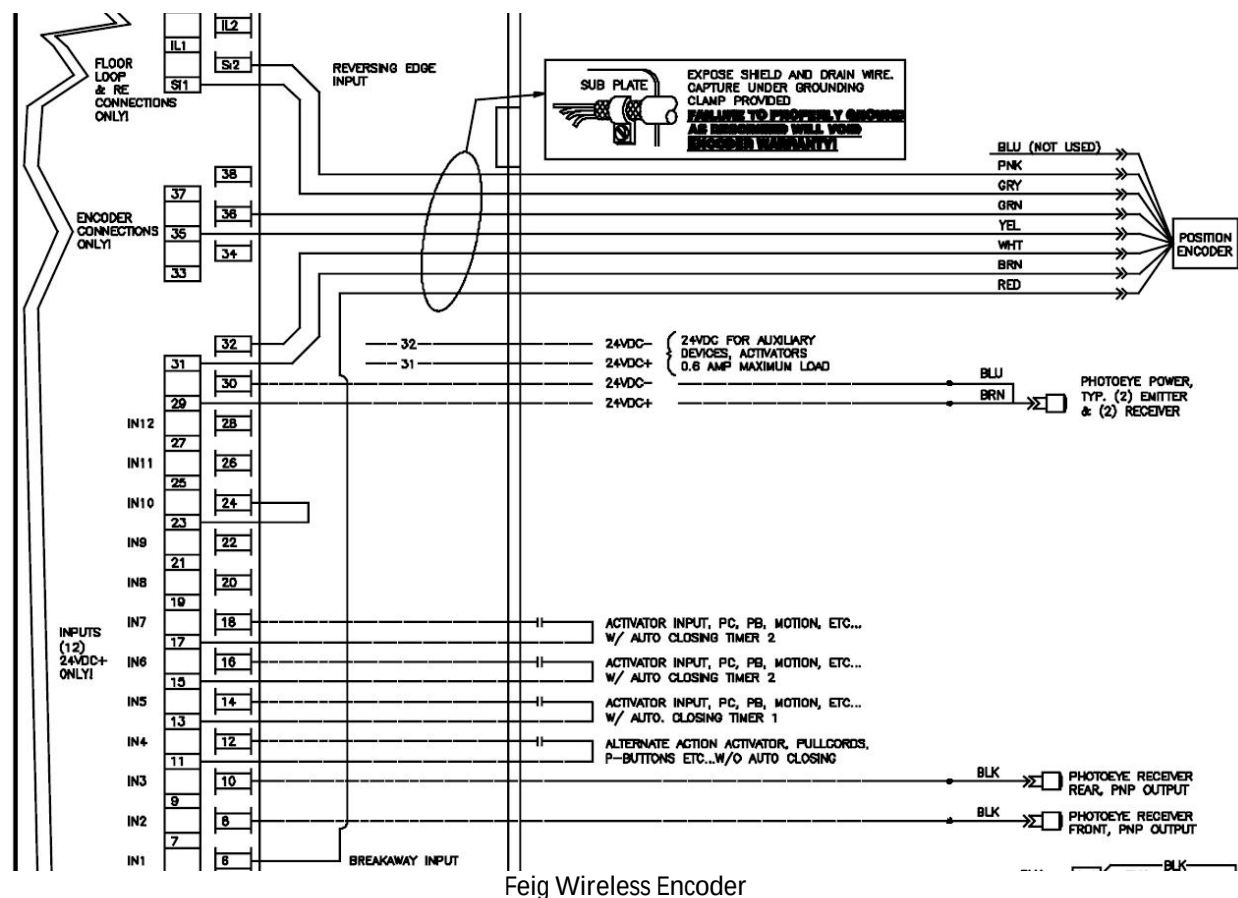
There will be 4 basic packages for the retrofit to the System 4 controller depending how the above questions are answered. This will also dictate the extra parts needed.

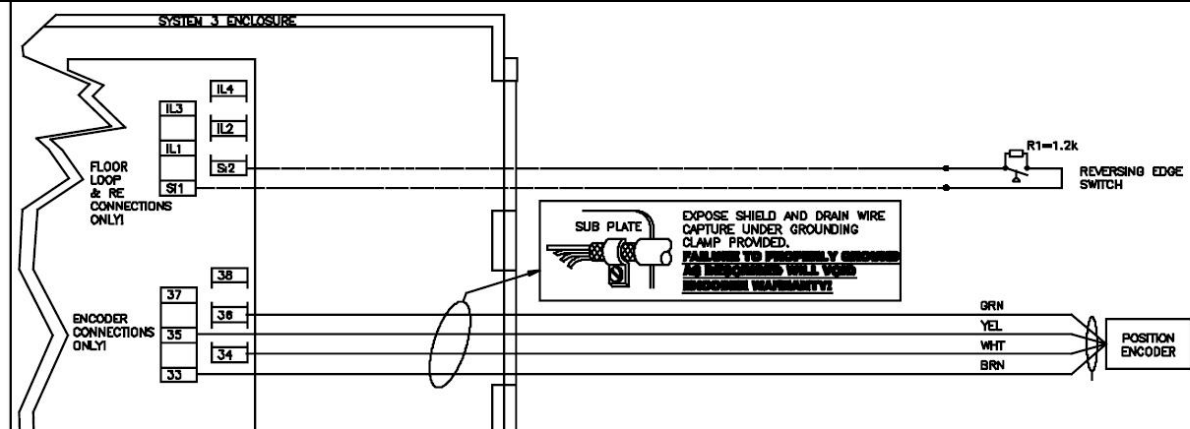
Many of the components could have been field modified along the way without Rytec notification and with parts not tracked by our systems to specific doors. We at Rytec will only go off of the current door schematic. As such, incorrect or incomplete components sent based on field modifications will not be the responsibility of Rytec Corporation.

All Freezer packages will require a complete control box replacement to accommodate for the extensive amount freezer wiring.

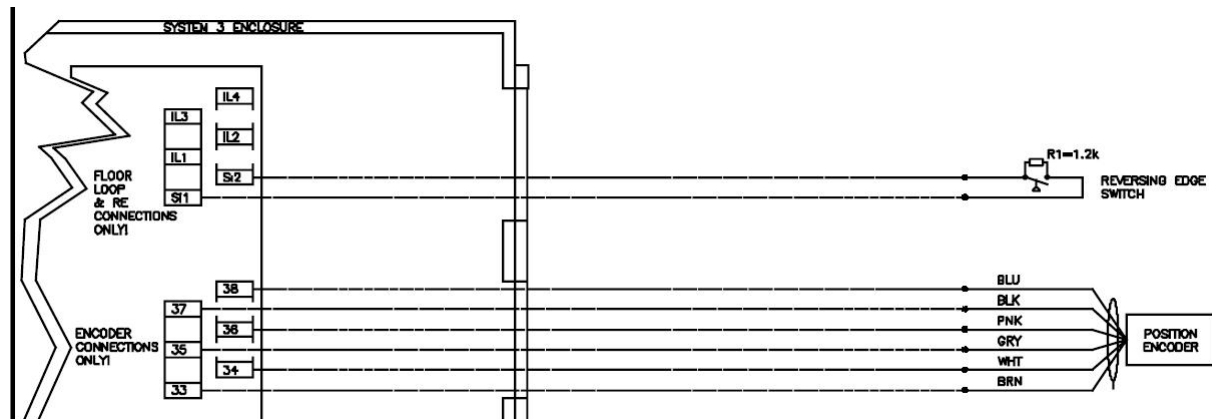
All 575/600v controllers will require a complete control box to accommodate the new layout of the toroidal transformers.

All retrofits will come with new schematics for re-wiring of components. As such, all retro's will require an A5 partner. Custom modifications to programming not reported at the time of order will not be included in the schematics and will need to be field-modified.

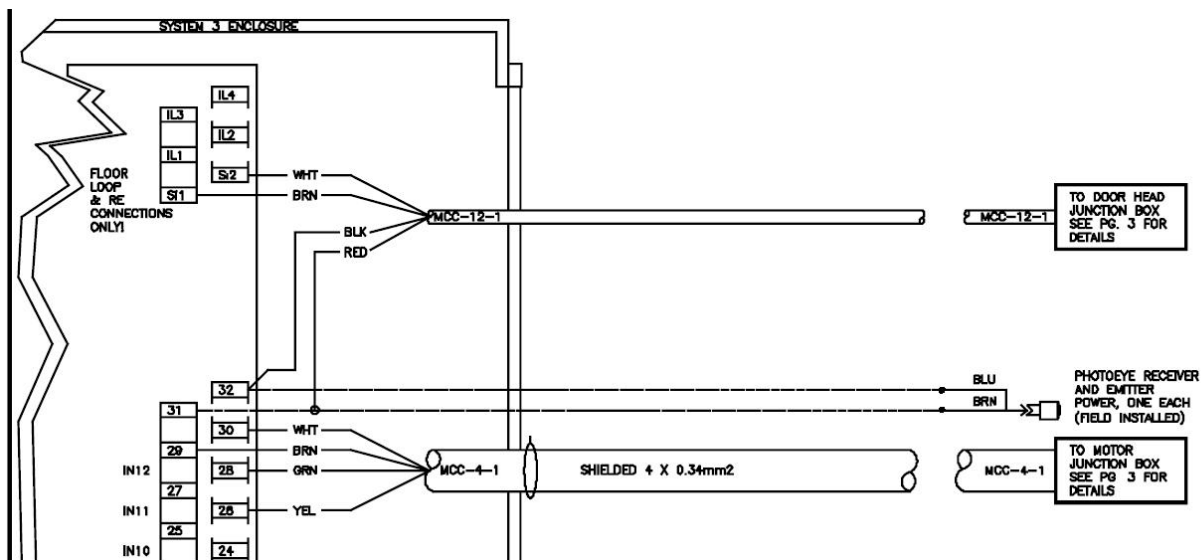




Feig Non-Wireless Encoder

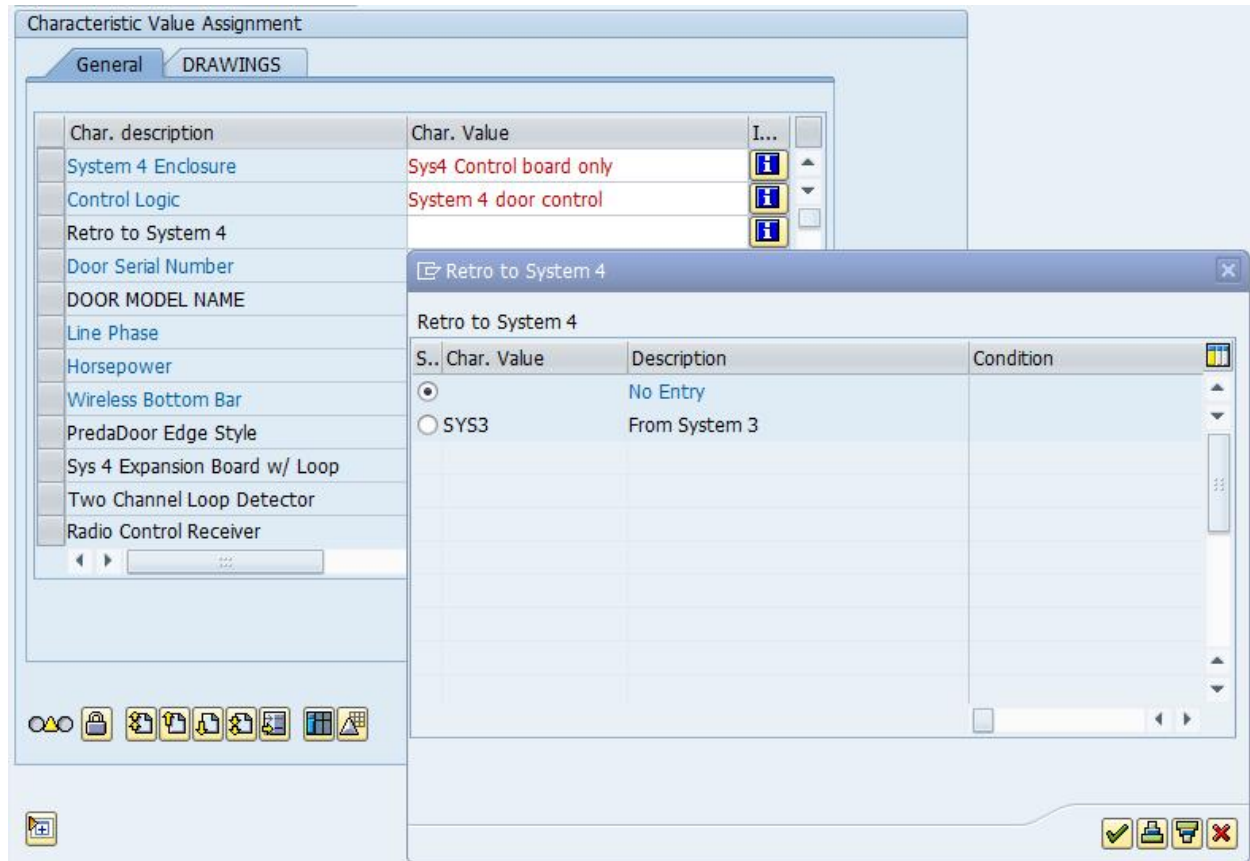


Dynapar Encoder



Pulse Generator/Turck Encoder

The PN R00142000 now has configuration for the mounting assembly and ribbon cable extension when using the existing enclosure. We will no longer need those part numbers along with the mini connector or the encoder cable. All of those old part numbers will pull in based on the check boxes in the R00142000 part number.



By checking the SYS3 retro option the correct internal components will now pull in regardless of the new enclosure or board only options.

You will still need to make note of the encoder type and motor frame when applicable.

Also, there have been some instances of requests for converting to wireless with some quotes. When they are getting the System 4 retro you can now switch to the XR encoder and mobile unit. They must be purchasing the System 4 controller to purchase the XR wireless.

On the next page is the revised part number list for the current configuration.

Dynapar Encoder

Parts needed:

R00142000 SYSTEM 4 CONTROL ASSY,PER DOOR

RXXXXXXX FEIG ADAPTER KIT DEPENDING ON MOTOR TYPE AND FRAME SIZE

For Predadoor, Clean Roll, Plexline, and Turbo Seal Self Repair:

R1060077-0 ENCODER RETRO KIT,FEIG,TST

Note: This includes the encoder mounting assembly and Cable

For Arctec, Fast Seal, Pharma Seal, and Turbo Seal:

R0002828 PLATE, FEIG ENCODER MOUNT, FOR SEW 71/80 BMG MOTOR

or

R0002829 PLATE, FEIG ENCODER MOUNT, FOR SEW 90/100 BMG MOTOR

Note: The above plates DO NOT include the encoder and cable and need to be on the line item.

R00141134 ENCODER,NON-WRLS,PIGTAIL

R00141086 CABLE,ENCODER,M12,FEMALE,TYPE A,8PIN,15M

With either plate you will also need:

2EA R0553021 SCREW, #10-24 X 3/8 Lg. PHIL PAN HD.

FEIG/Pulse Generator/Turck Encoder

Parts needed:

R00142000 SYSTEM 4 CONTROL ASSY,PER DOOR

If you have any questions please contact Rytec Customer Support at 1-800-628-1909.