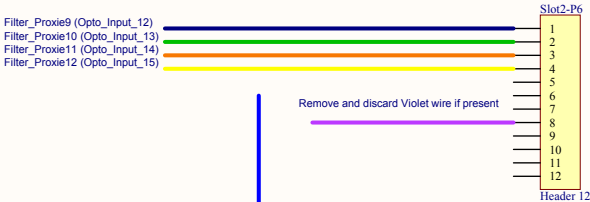


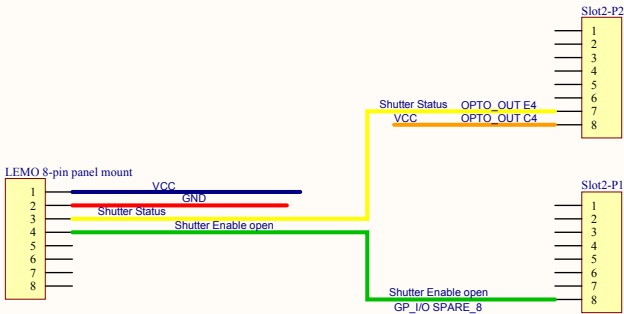
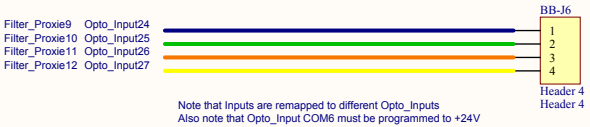
1. While leaving all connection in place, remove baseboard from its enclosure
2. Remove 8-pin IDC connector P6 from GPIO card in Slot 2
3. Remove GPIO card from Slot 2
- 3a. Install Extended GPIO card in Slot 2
4. Snip wires from P6 IDC connector so that you have removed about 75 mm length.
5. If there is a violet wire connected to P6-8 remove and discard.
6. Install newly cut wires into 4-pin IDC connector following schematic below.
7. Connect 4-pin IDC connector (with new wires installed) to J6 of the SF Baseboard (connector is on bottom of board)
8. Install new wire assembly (with round LEMO connector) to front panel of FWS box.
- 8a. New wire assembly has two IDC connectors attached. Connect each to P1 and P2 on Extended GPIO card.
9. Remove 12-pin IDC connector from J10 on Baseboard.
10. Install two wires from LEMO connector to J10 (Black wire to J10-12, Red wire to J10-11).
11. Replace J10.
12. Remove 12-pin IDC connector from J9
13. Connect flying Red wire from connector on Slot2, P2 to J9-11
14. Replace J9

Move four lines from Slot2-P6 to BB-J6
Snip wires, reinstall on to 4-pin IDC (BB-J6)

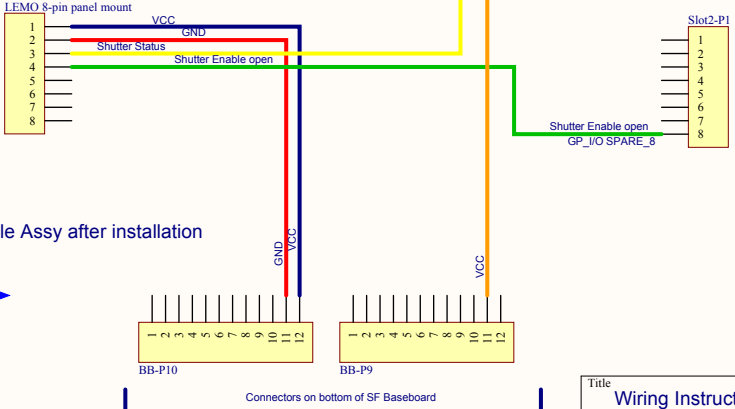


Software Changes

Proxies remapped from input 12-15 to 24-27
Opto Input COM6 set to +24V
Shutter Enable = GP_I/O SPARE8
Shutter Status = Opto_Out_4



Cable Assy before installation



Cable Assy after installation

Title		
Wiring Instructions / Shutter Control via CSU		
Size	Number	Revision
B		
Date:	9/12/2013	Sheet of
File:	_Instructions to modify FWS for control by CSU Board SchDoc	