FCAL Dark Room Controls – Parts List

Dan Bennett – 3/11/13

Already purchased by IU:

Electromagnetic Door Locks x 2: "Securitron Magnalock M62BD" – Already purchased by IU. Has digital input for magnetic power, and then digital outputs for Bond Sensor ("B") and Door Position ("D")

Could use some specific part suggestions, if there is a preferred part for the Hall or Lab:

Temperature Sensors x2: Could use input on specific parts – Do not need high precision or accuracy, on the order of 2 degrees or 2% humidity.

Humidity Sensors x2: Could use input on specific parts – Do not need high precision or accuracy, on the order of 2 degrees or 2% humidity.

Photosensors x4: Could use input on specific parts – Do not need high precision or accuracy, on the order of being able to tell if a door is open, a large light leak is present, or someone inside the room turns on a flashlight.

"Trip Switch"x1: Something kind of user switch, like a circuit-breaker, that requires a manual, physical reset if any fault occurs in the system.

PMT Base Power Relay x1: Just need 1 relay for all power chassis. Main relay that controls all the base power. (Each power chassis already individual relays)

Could use some part suggestions if there is a strong preference, but we can probably find these easily:

User Buttons x4: Could use suggestion, although we can find something for this if no preferred button type by the Lab.

Crash Buttons x2: Could use suggestion, although we can find something for this if no preferred button type by the Lab.

Dark Room Status Board: LED Displays which show the current Power Chassis relay status, whether any fault occurred, environment and door sensors, etc.

Power Supplies, Wiring, Cabling