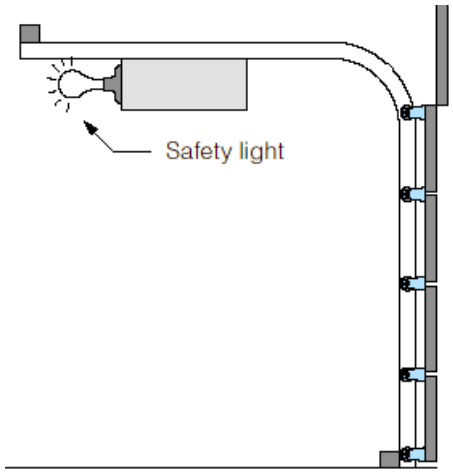
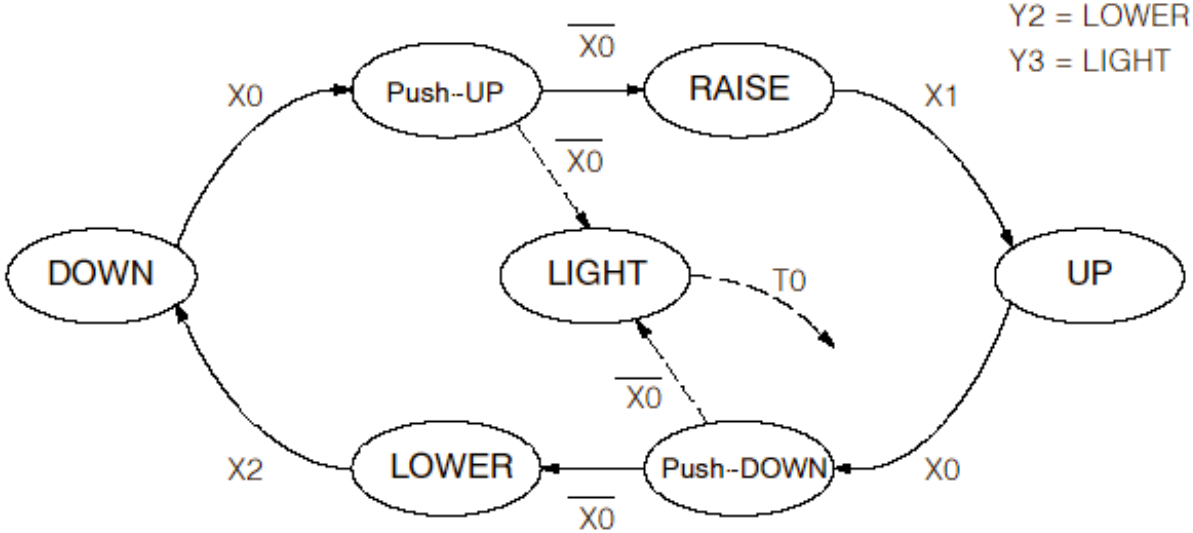
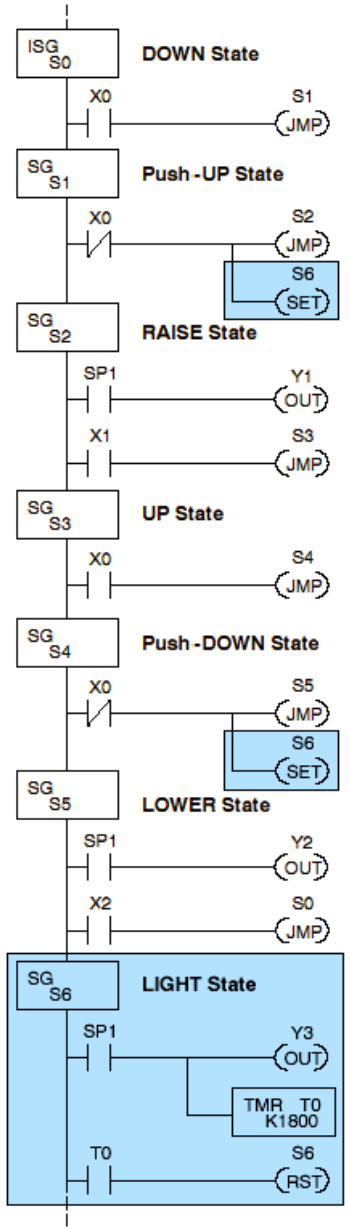
Garage Door Opener Example

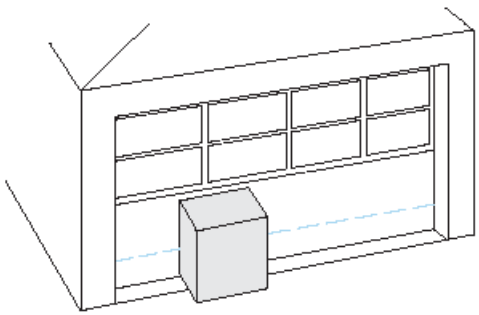


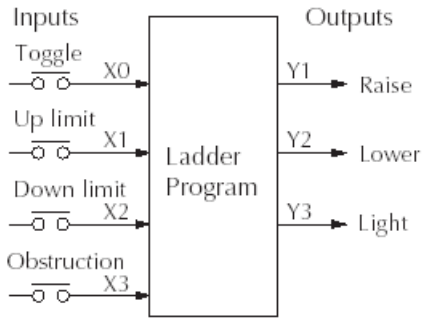
Output equations: Y1 = RAISE
Y2 = LOWER
Y3 = LIGHT

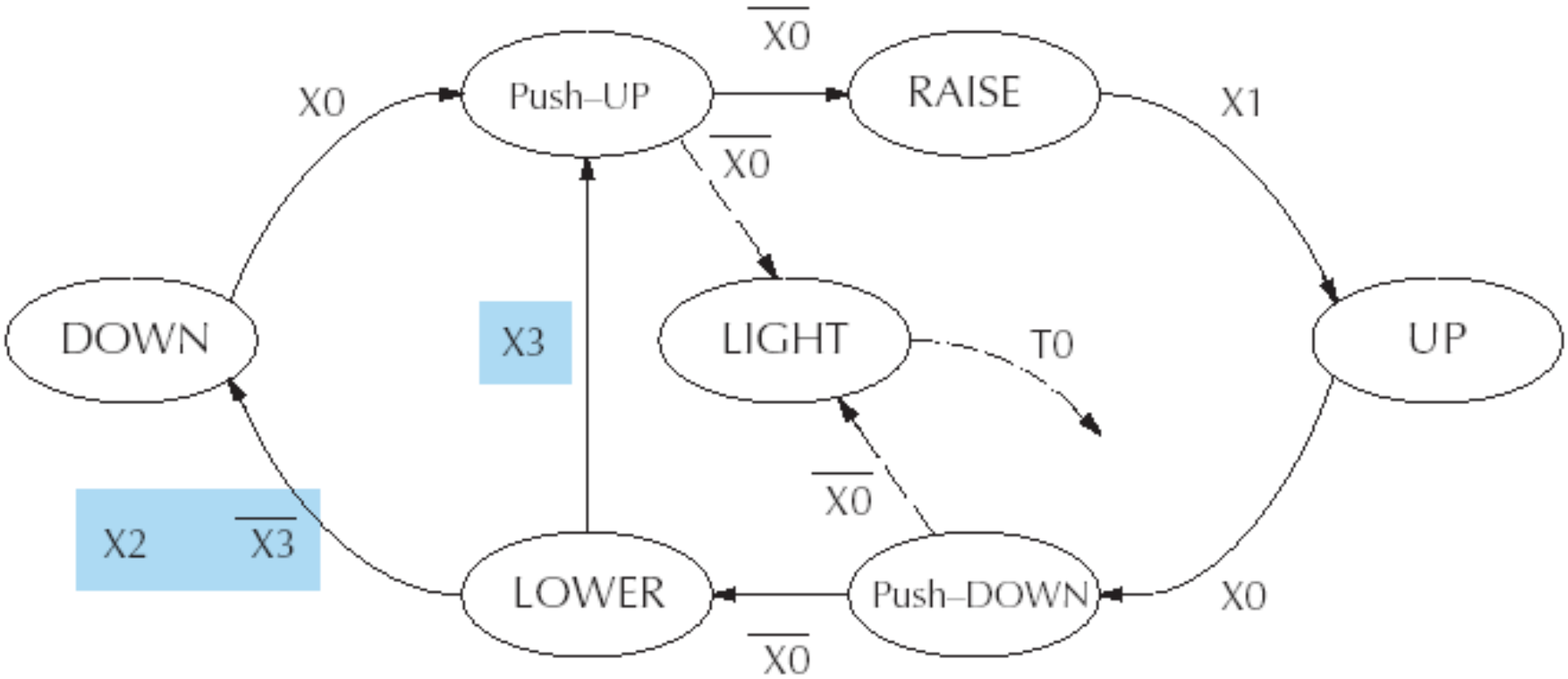




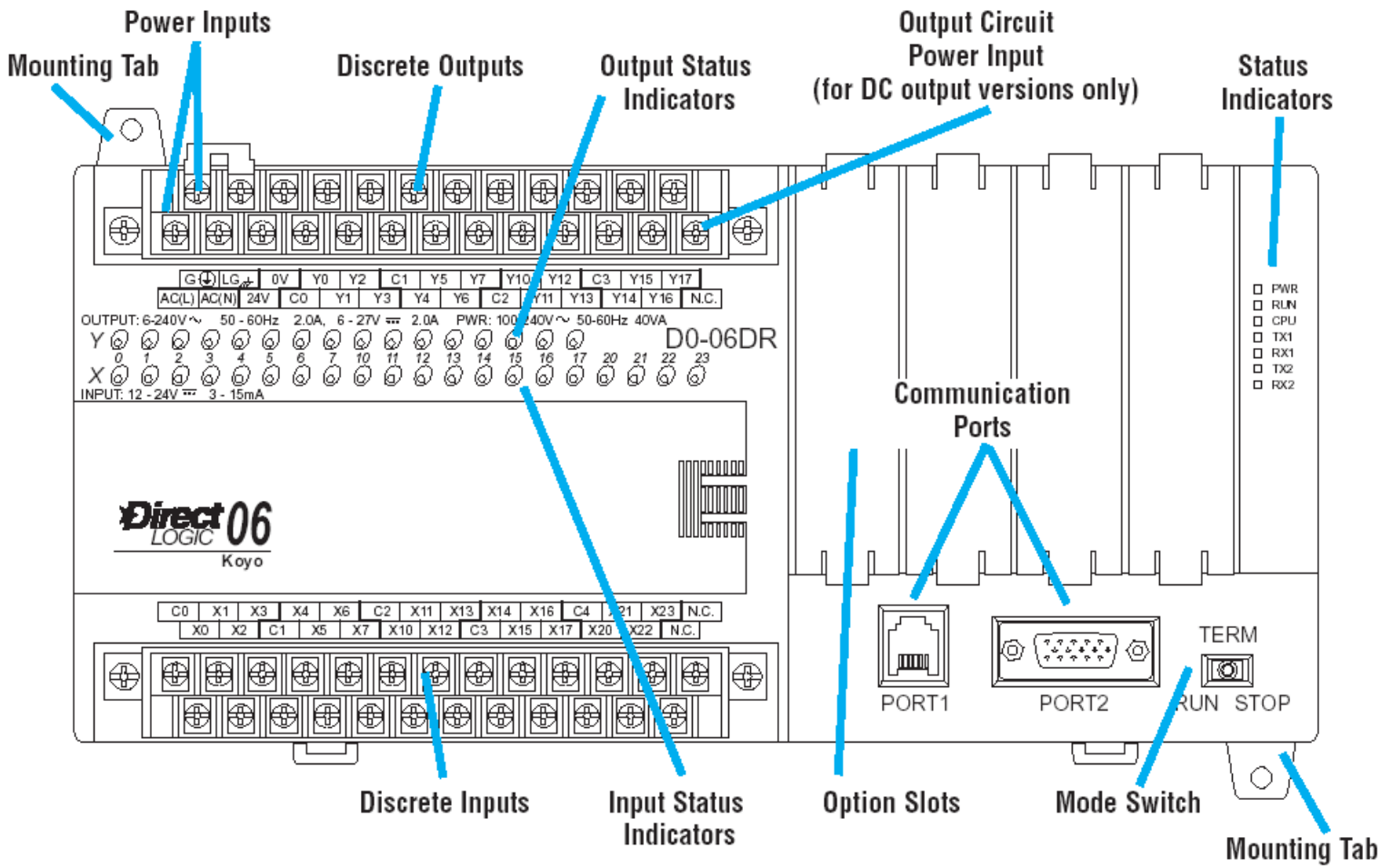
Garage Door Opener Example







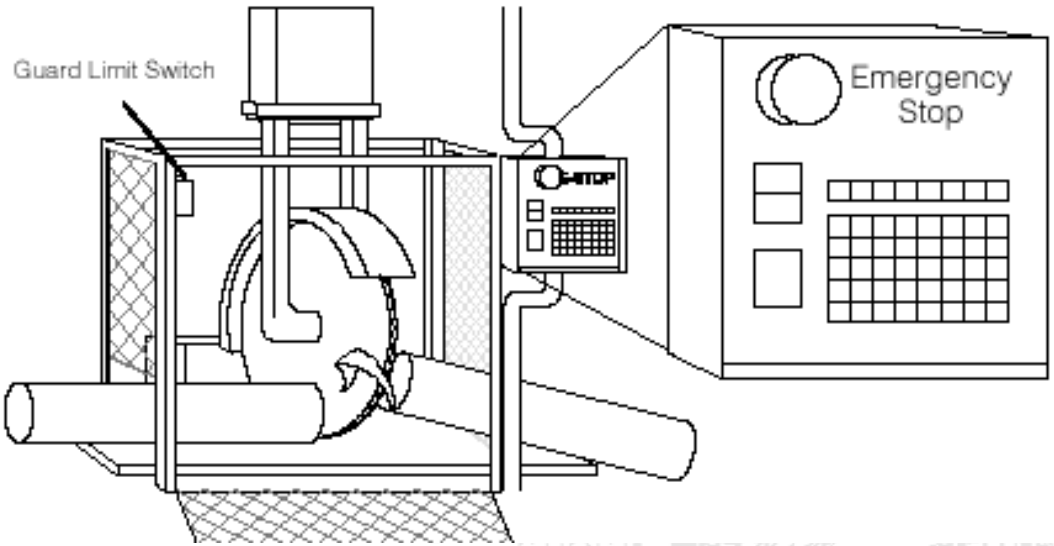
DL06 PLC Front Panel

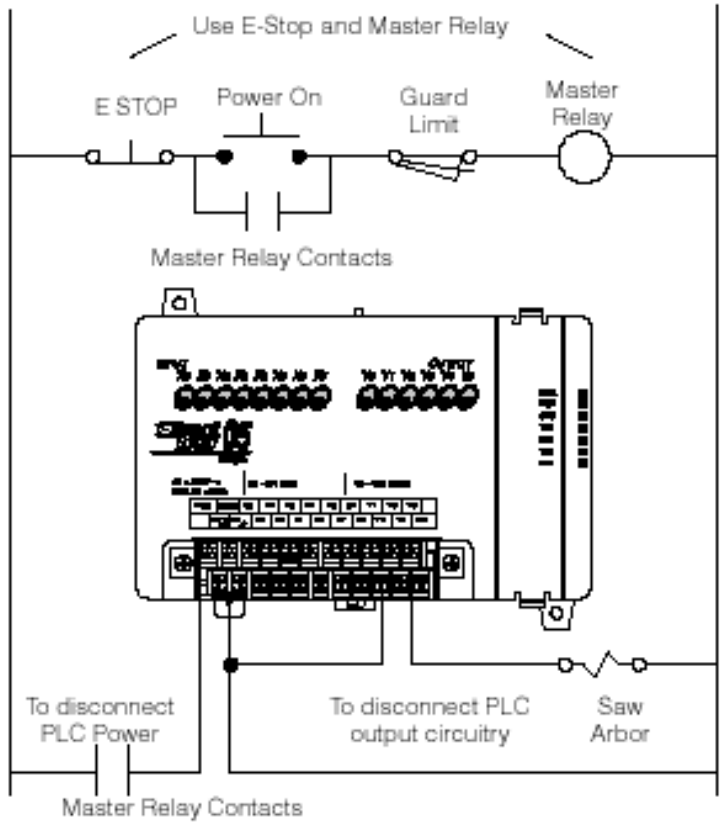


PLC Wiring

- *Power inputs*
- *Signal inputs*
- *Control outputs*

Power Input

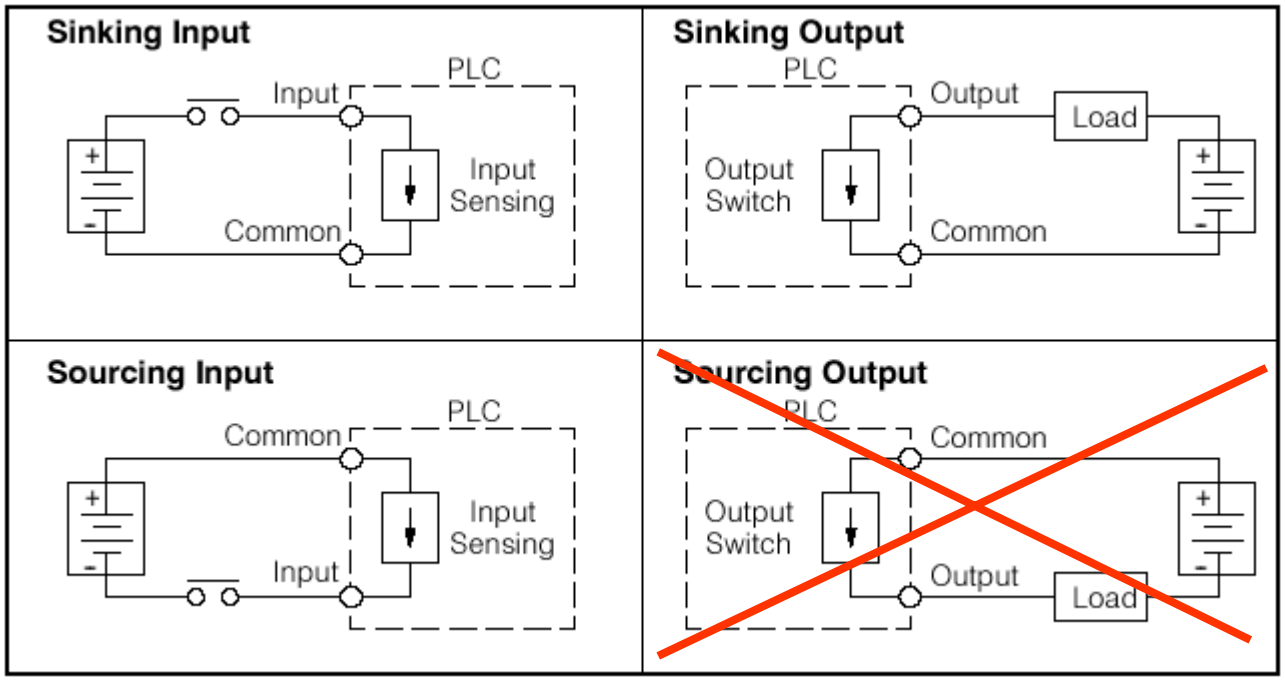




Three Levels of Protection:

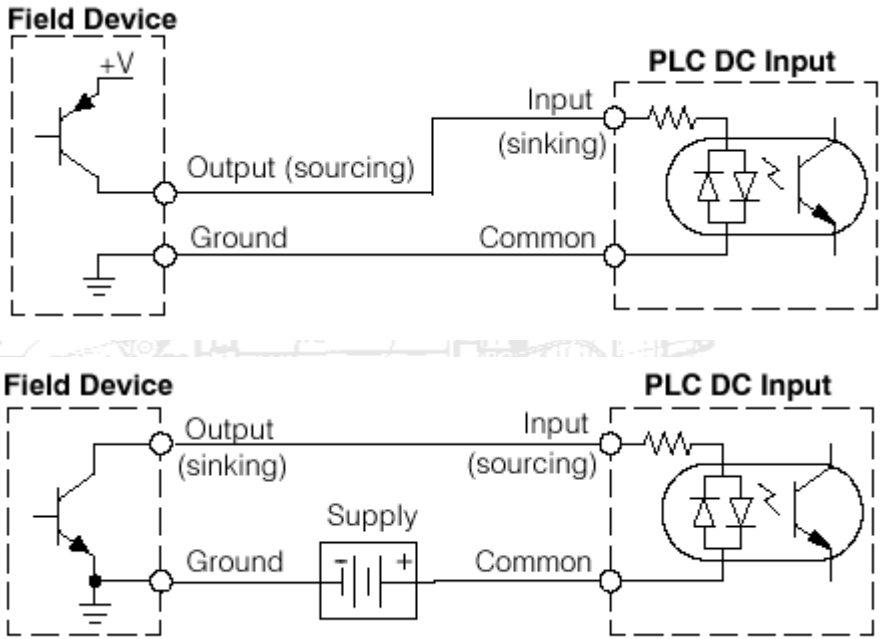
- *PLC logic - shutdown sequence*
- *PLC output power disconnect*
- *E-Stop shutdown of all energy sources*

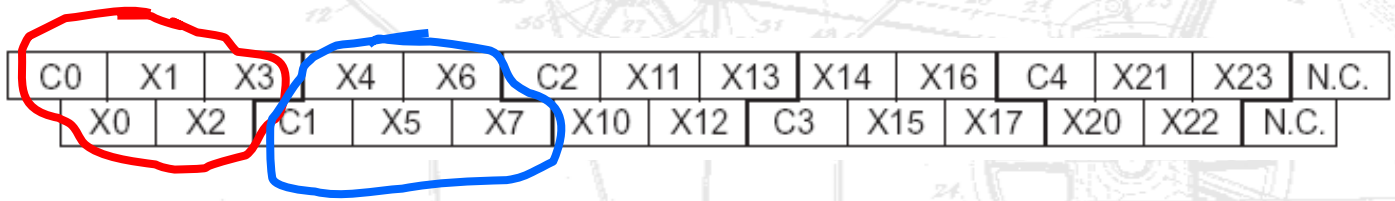
PLC Inputs and Outputs



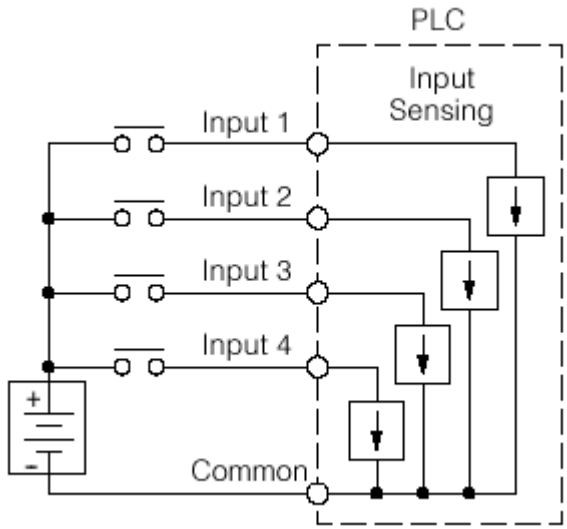
- *Sinking = drawing current*
- *Sourcing = supplying current*
- *Sinking output connects to sourcing input*
- *Sourcing output connects to sinking input*

DL06 Signal Inputs





Signal Inputs



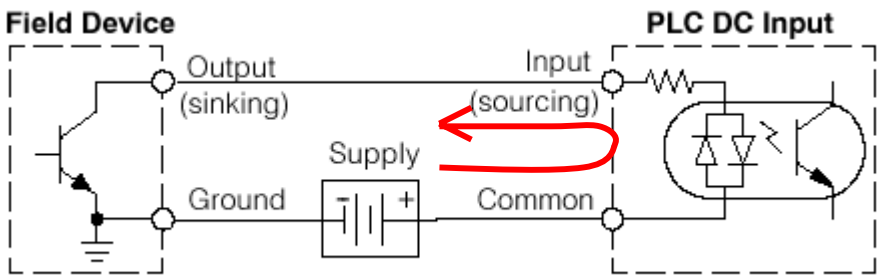
Multiple sinking inputs

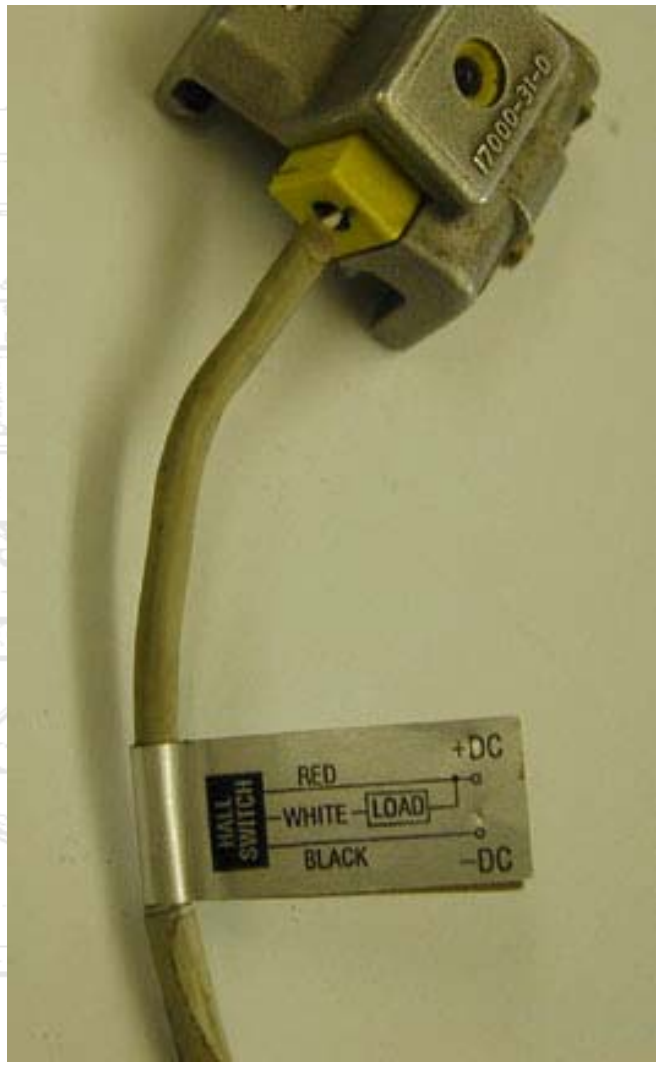
Typical Input Device

The tag indicates that the LOAD (PLC input) has a +DC common.

This is a sinking output.

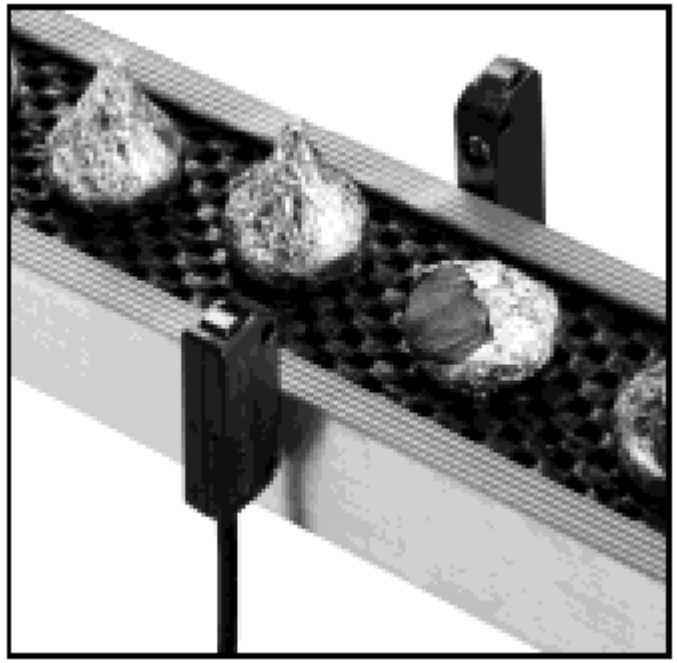
Sinking output => sourcing input



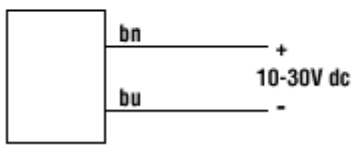


Another Input Device

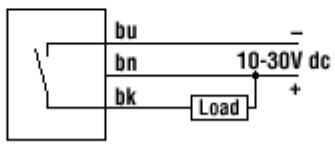
Photosensor - comes in either NPN (sinking) or PNP (sourcing) outputs.



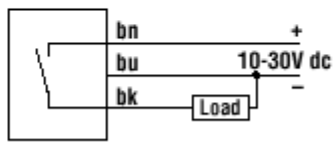
Emitters
Cabled Hookup



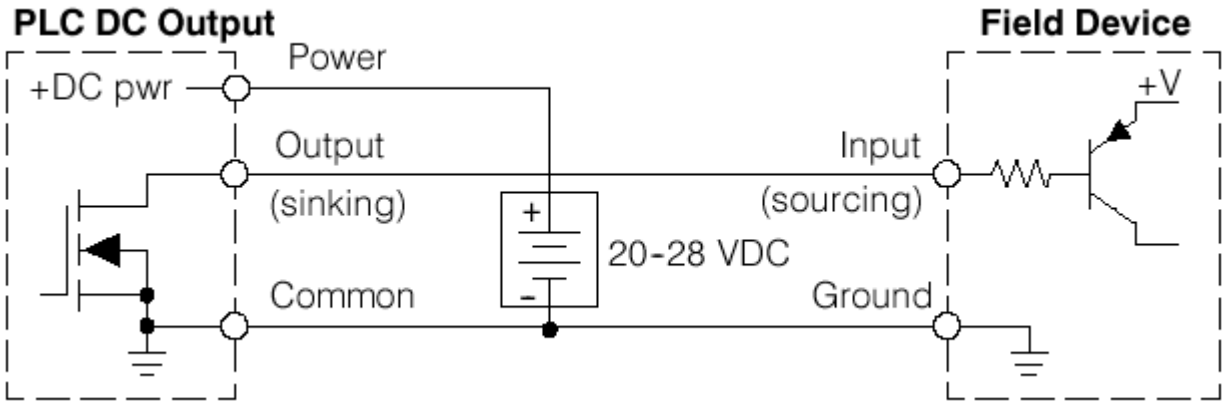
Receivers with NPN Outputs
Cabled Hookup

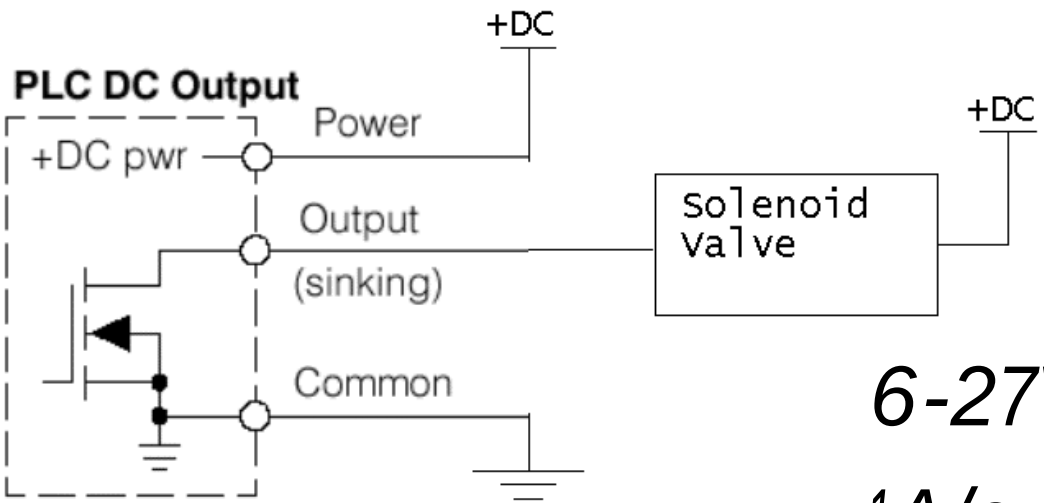


Receivers with PNP Outputs
Cabled Hookup



DC Control Outputs



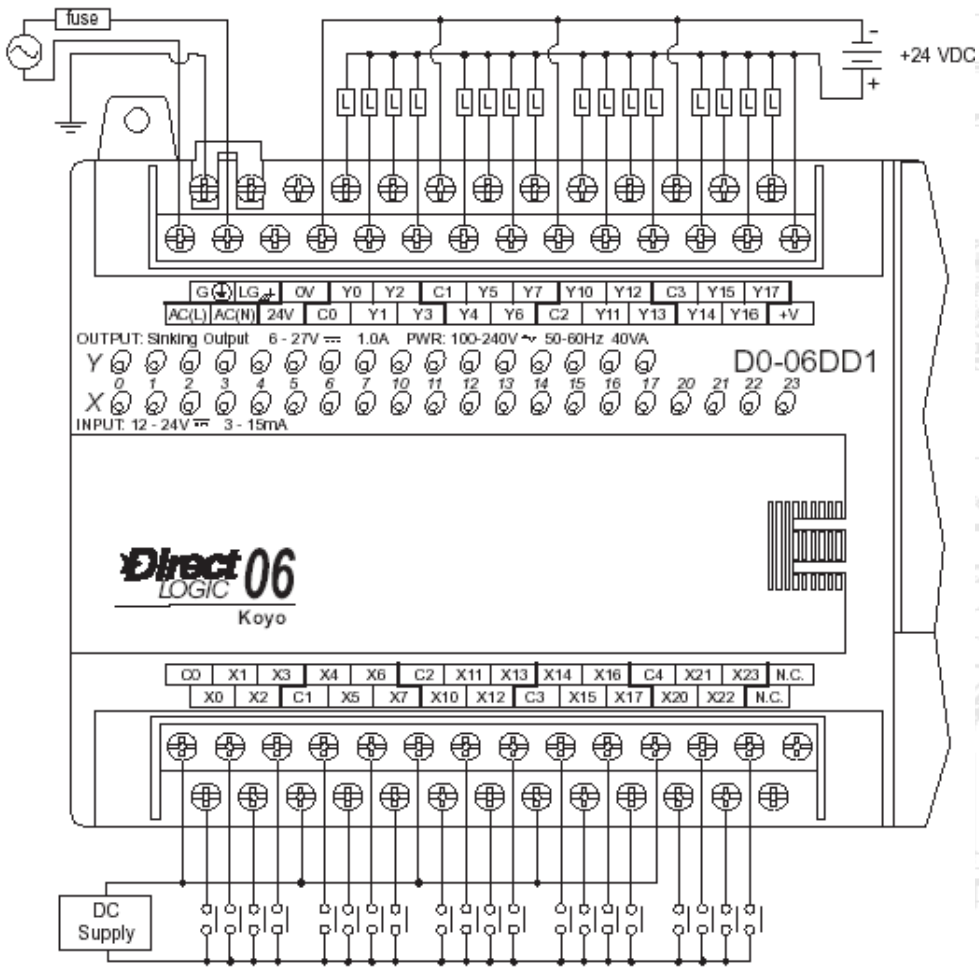


6-27VDC

1A/output

DC Control Outputs

)V	Y0	Y2	C1	Y5	Y7	Y10	Y12	C3	Y15	Y17	
C0	Y1	Y3	Y4	Y6	C2	Y11	Y13	Y14	Y16	+V	



6-27VDC

1A/output