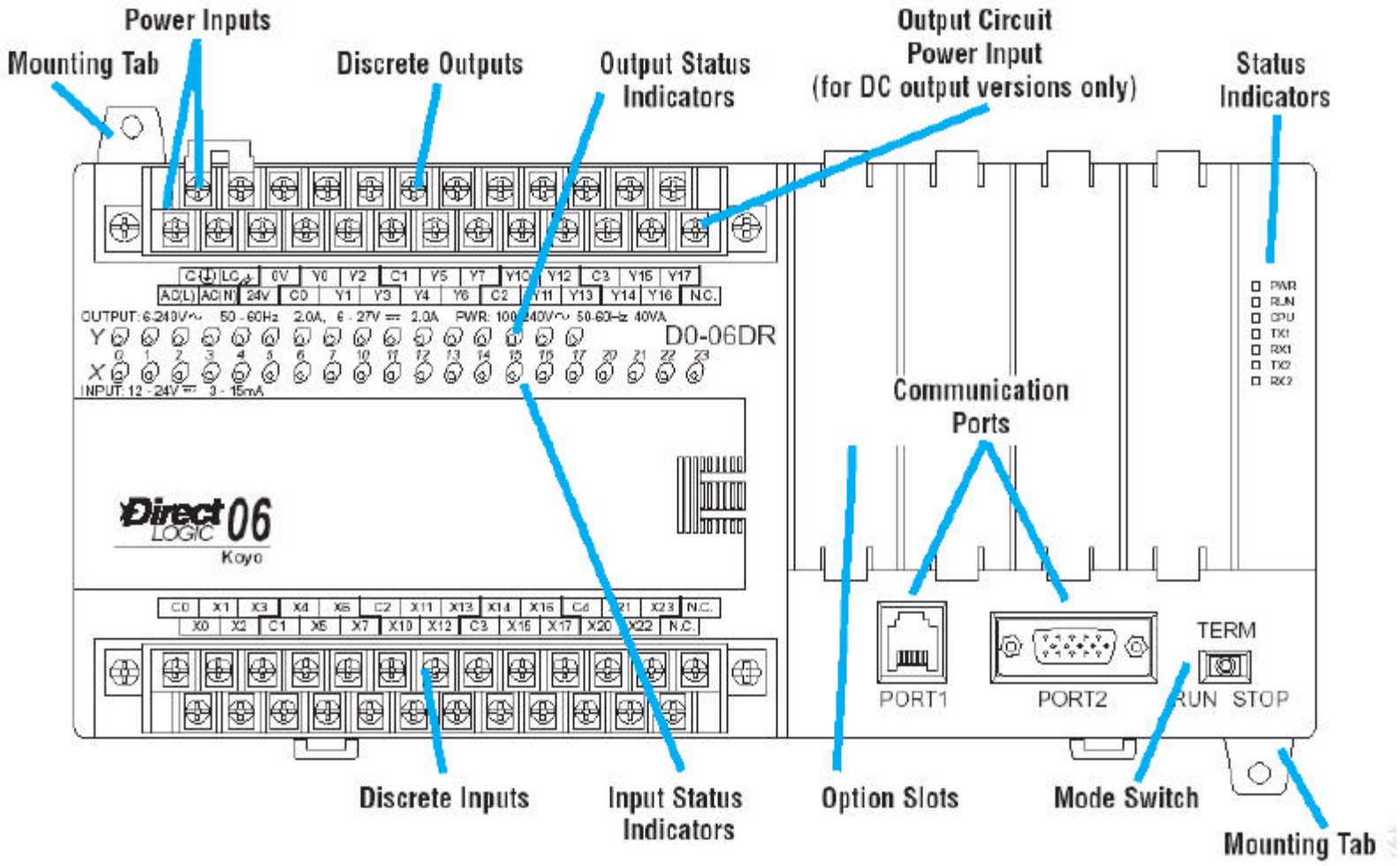
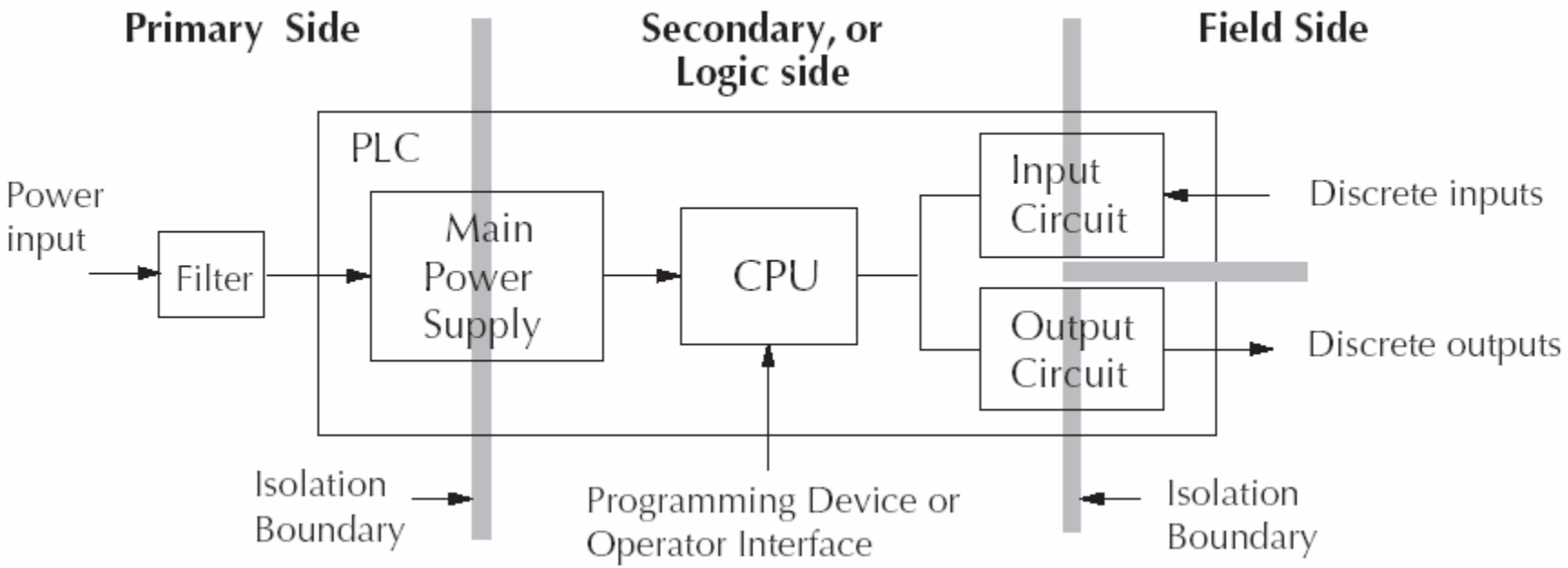
PLC Front Panel



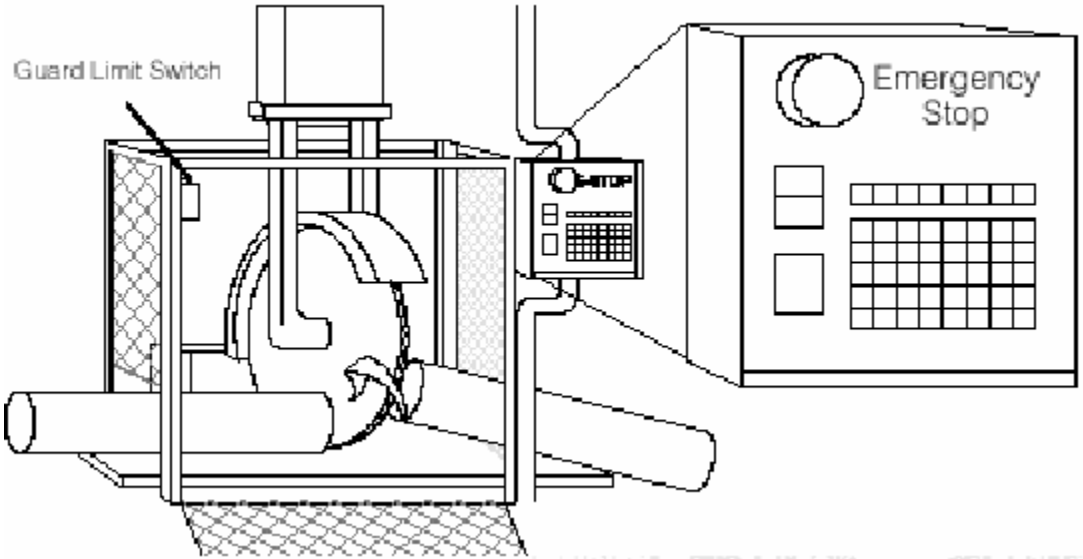
PLC Wiring

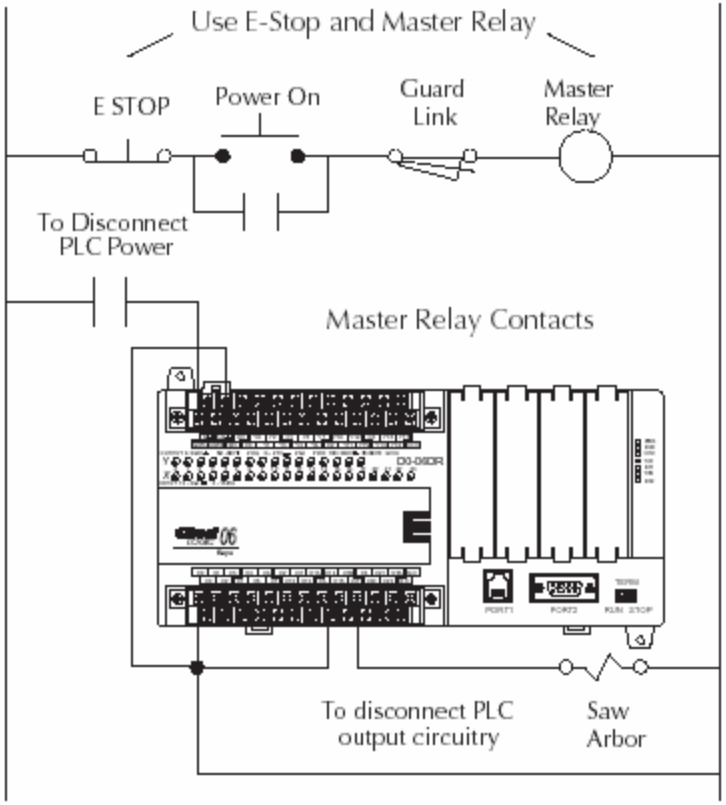
- Power Inputs
- Signal Inputs
- Control Outputs

PLC Isolation



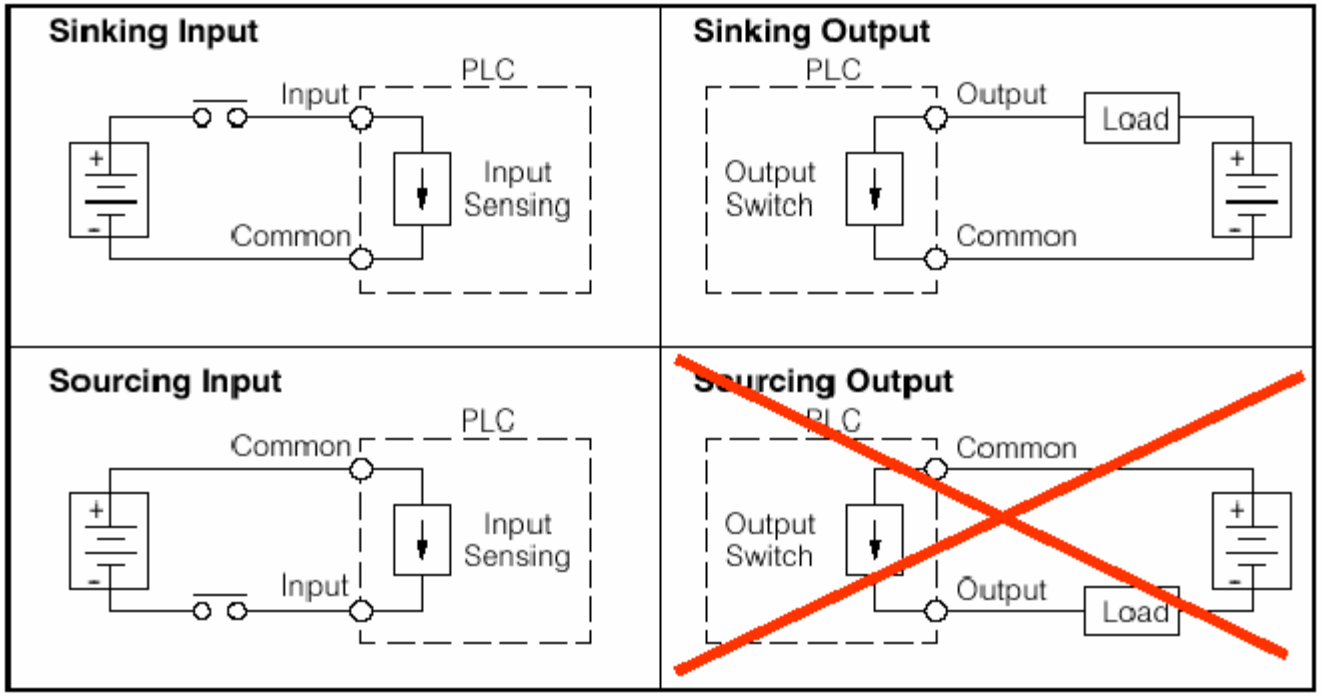
Power Wiring





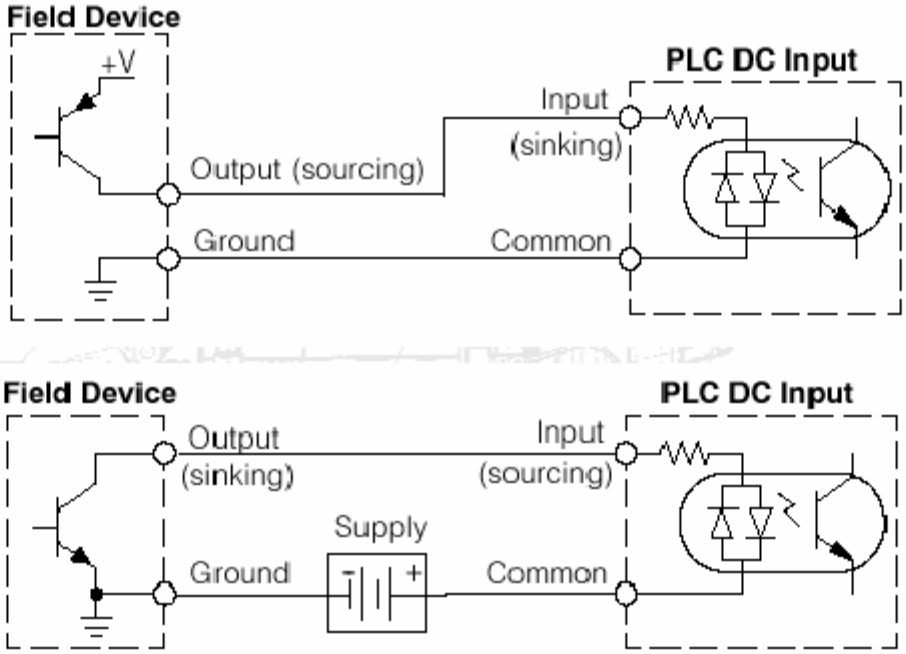
- Three levels of protection:
  - PLC logic - shutdown sequence
  - PLC output power disconnect
  - E-Stop shutdown of all energy sources

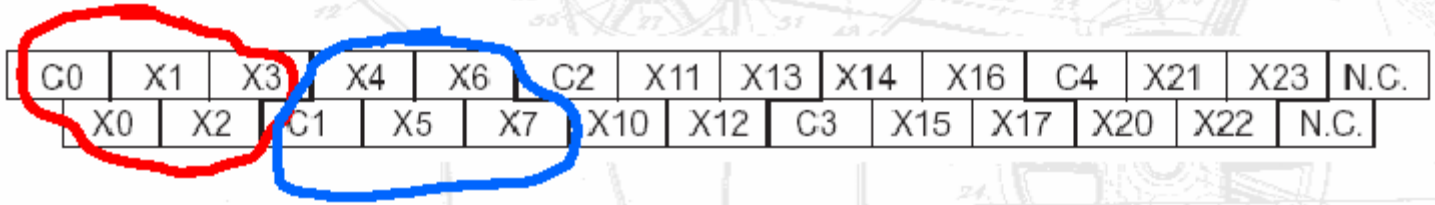
PLC Inputs and Outputs



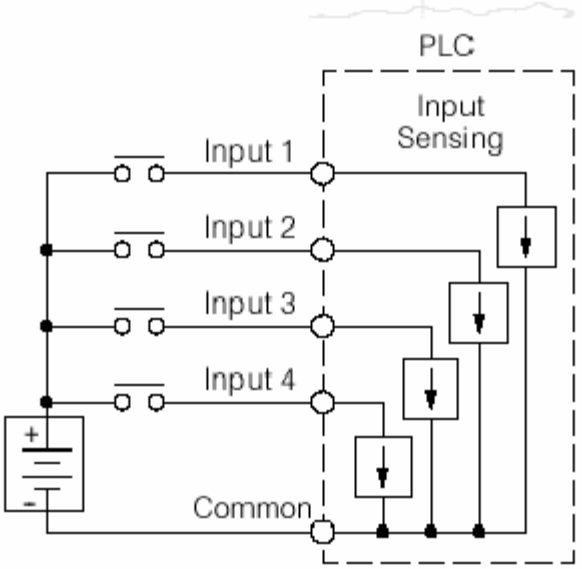
- Sinking = drawing current
- Sourcing = supplying current
- Sinking output connects to sourcing input
- Sourcing output connects to sinking input

DL06 Signal Inputs





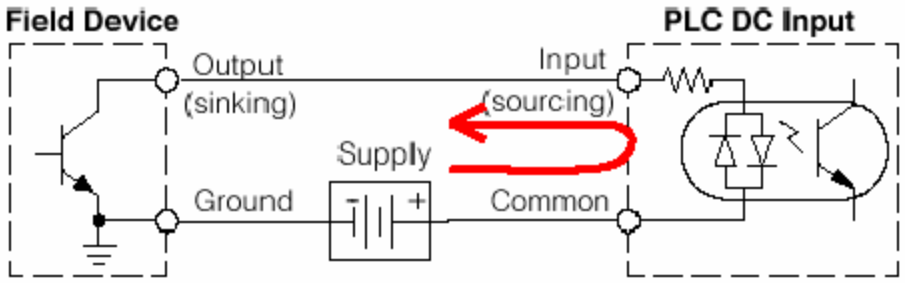
Signal Inputs

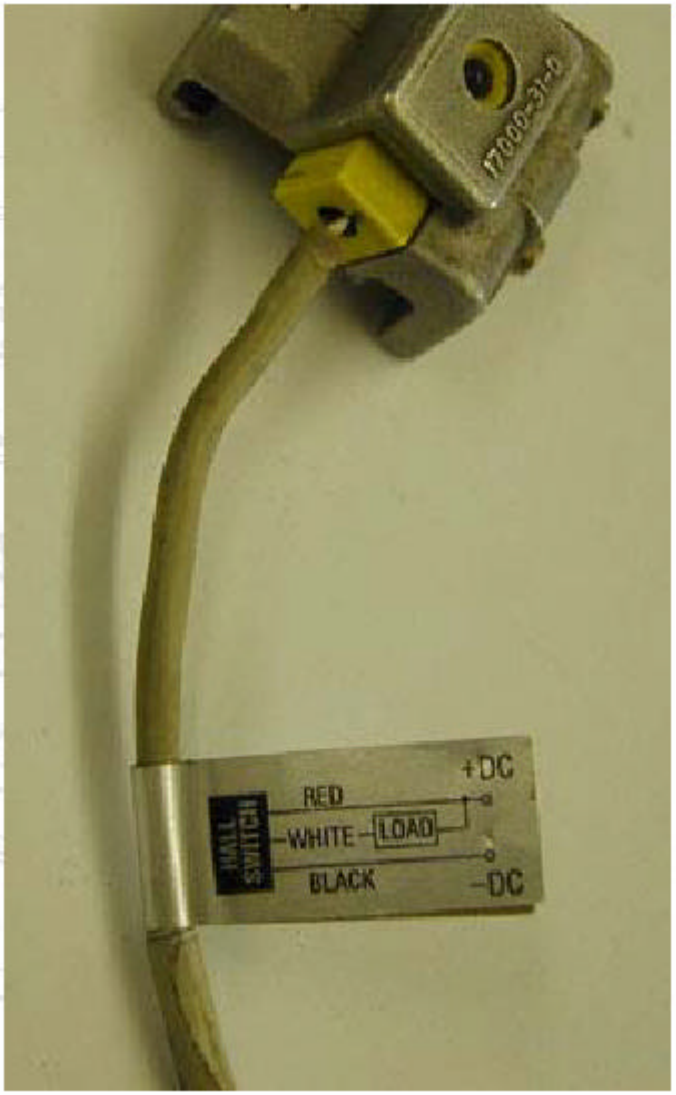


Multiple sinking inputs

Typical Input Device

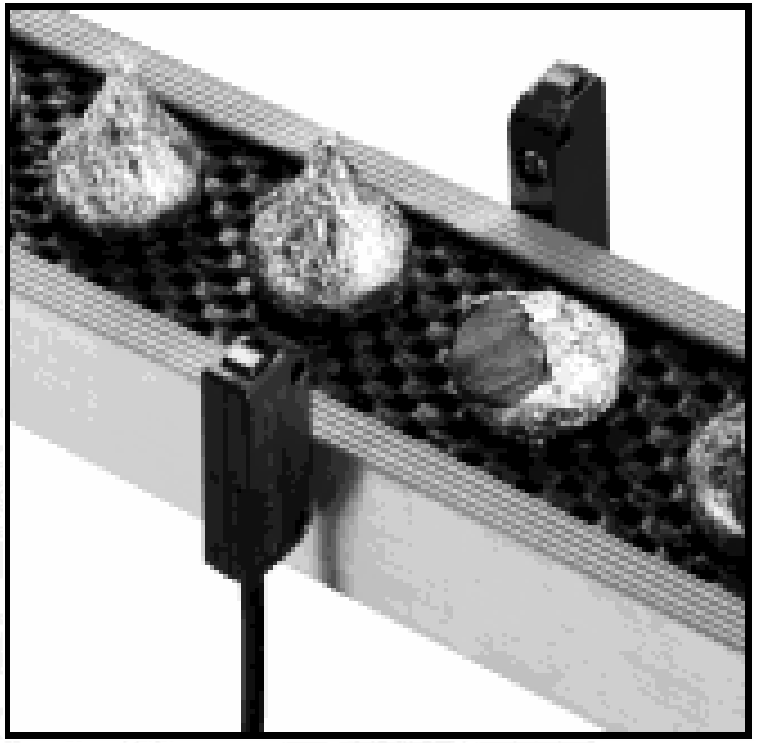
- The tag indicates that the LOAD (PLC input has a +DC common
  - this is a sinking output
  - Sinking output => sourcing input



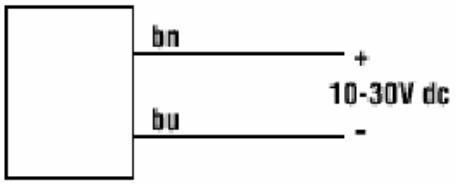


Another Input Device

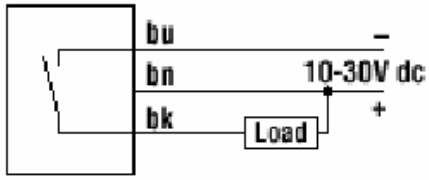
- Photosensor – comes in either NPN (sinking) or PNP (sourcing)



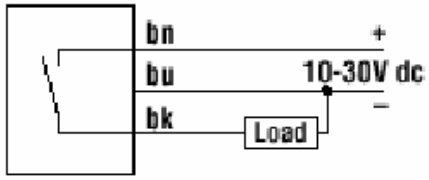
Emitters
Cabled Hookup



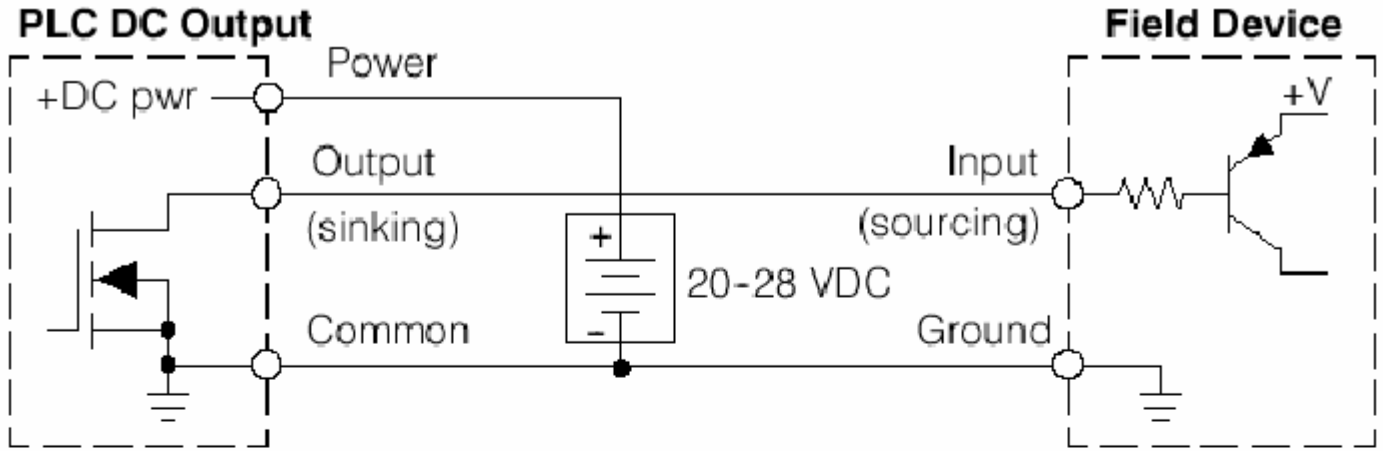
Receivers with NPN Outputs
Cabled Hookup

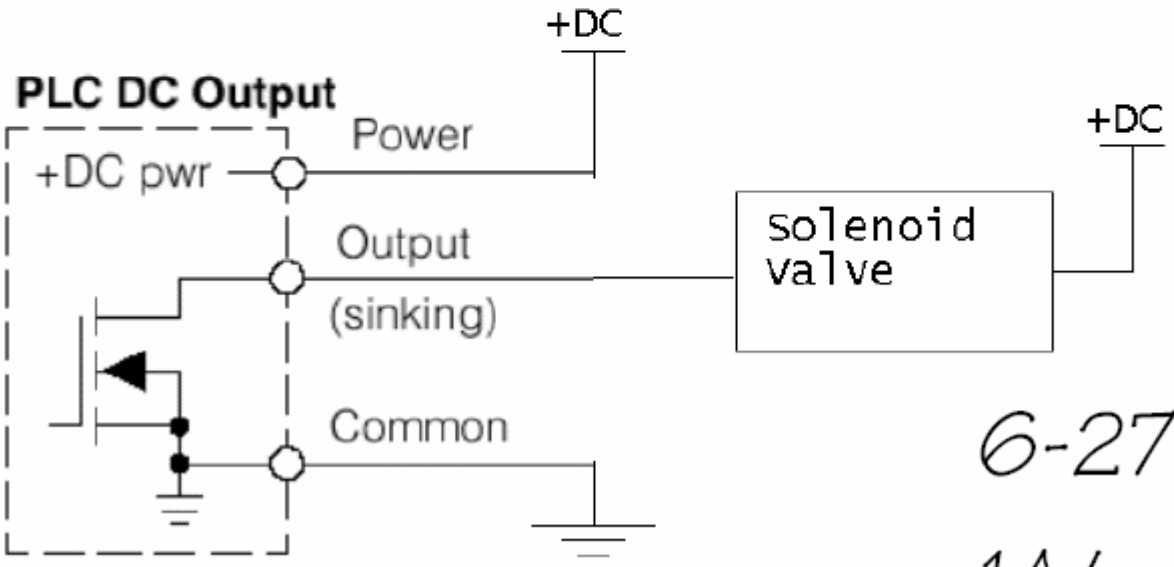


Receivers with PNP Outputs
Cabled Hookup



DC Control Outputs



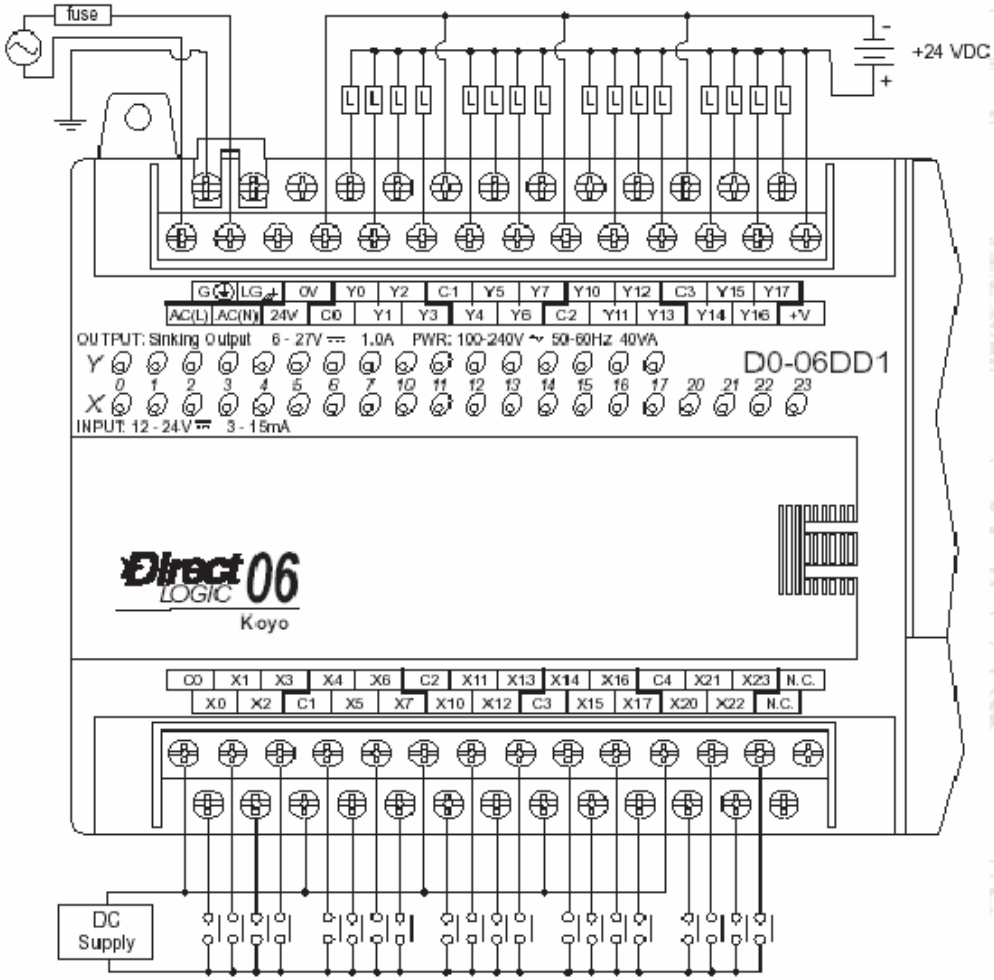


6-27VDC

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

Wiring Methods