PLC Front Panel

BX-DM1E-18ED13-D
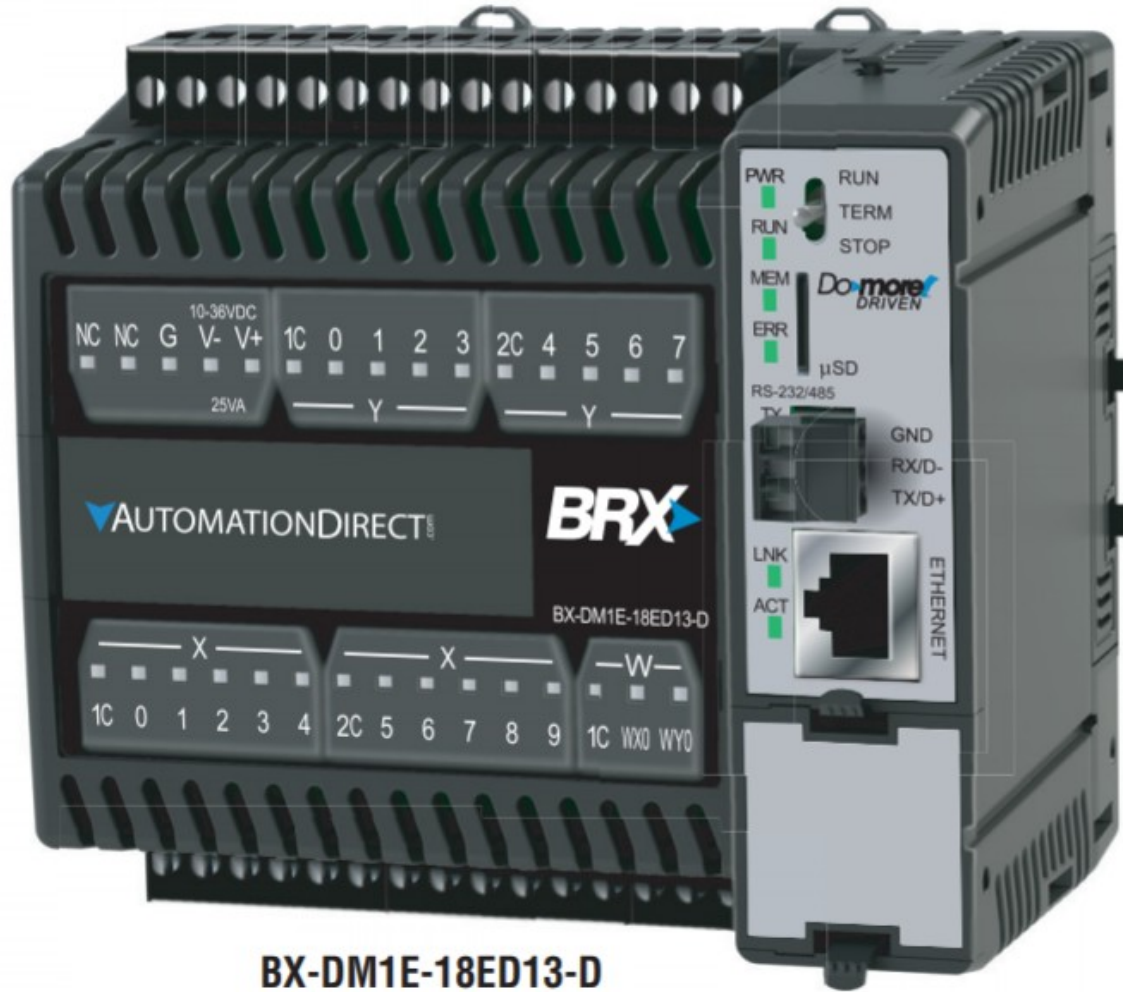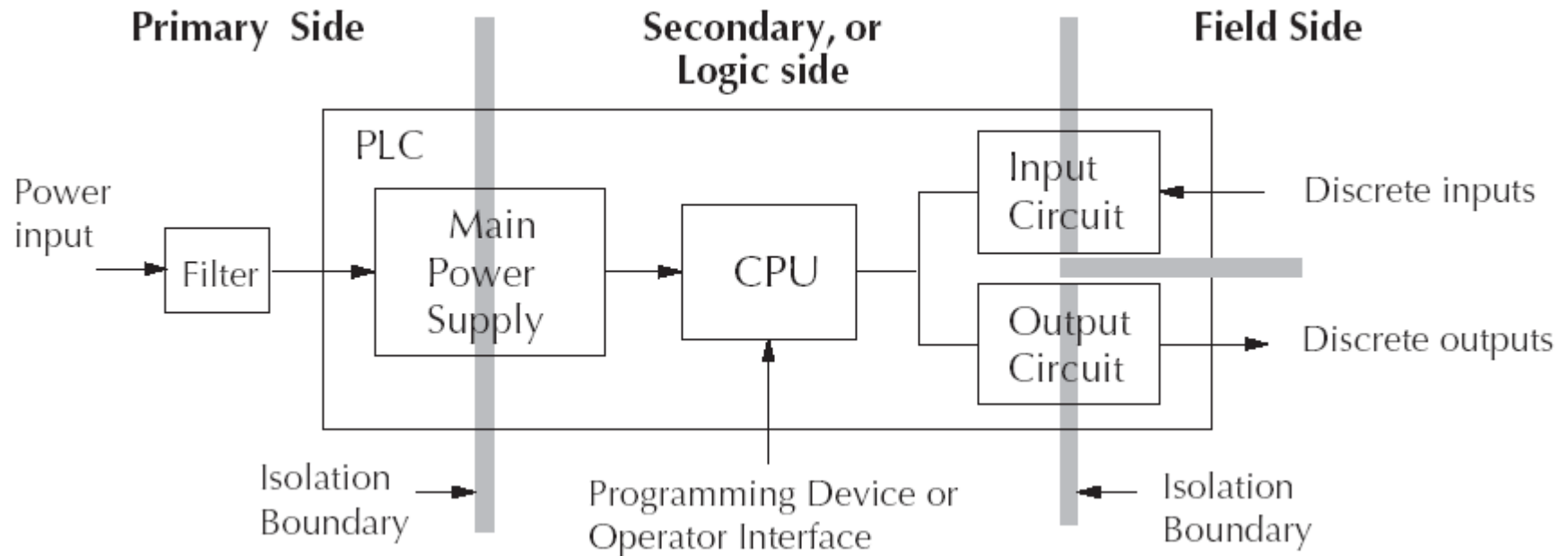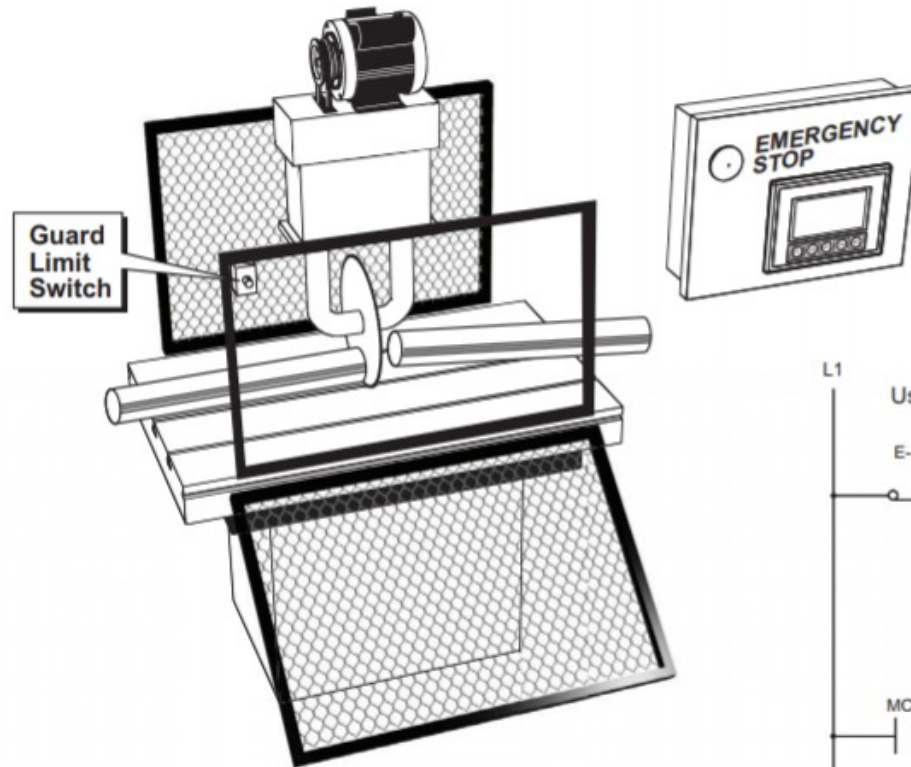
PLC Wiring

- Power Inputs
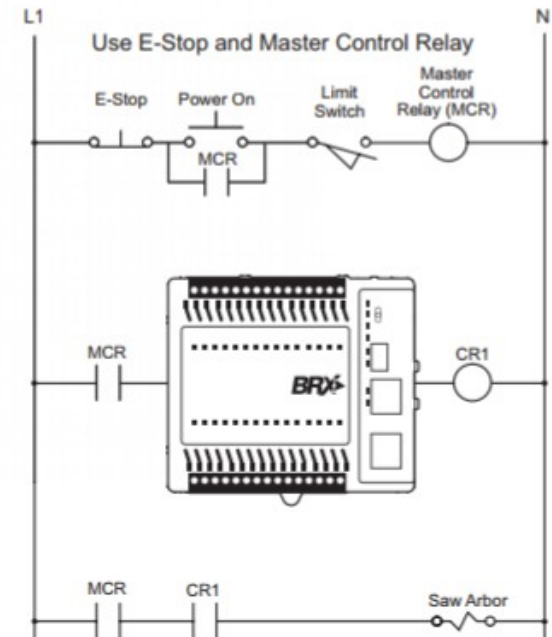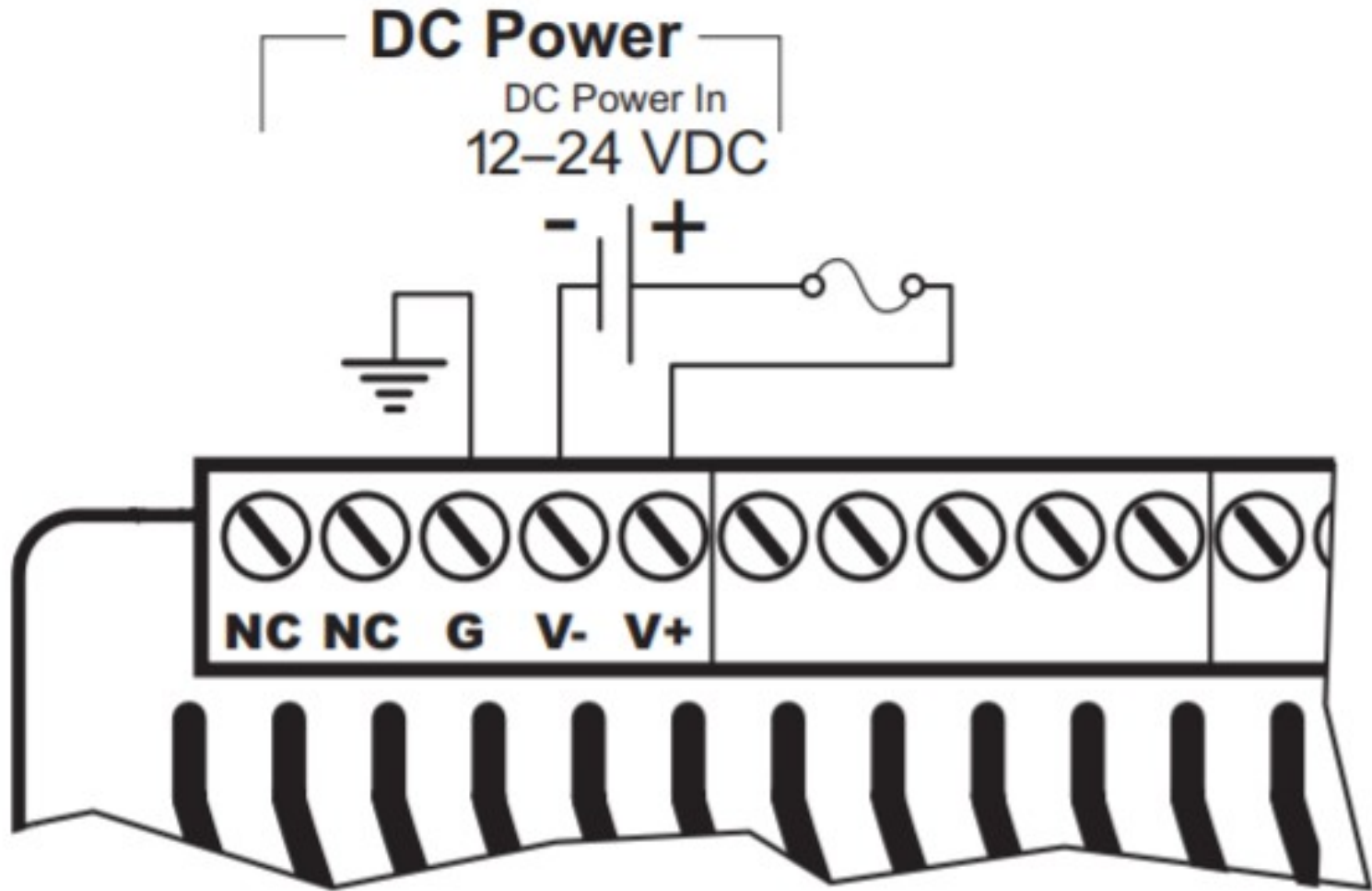- Signal Inputs
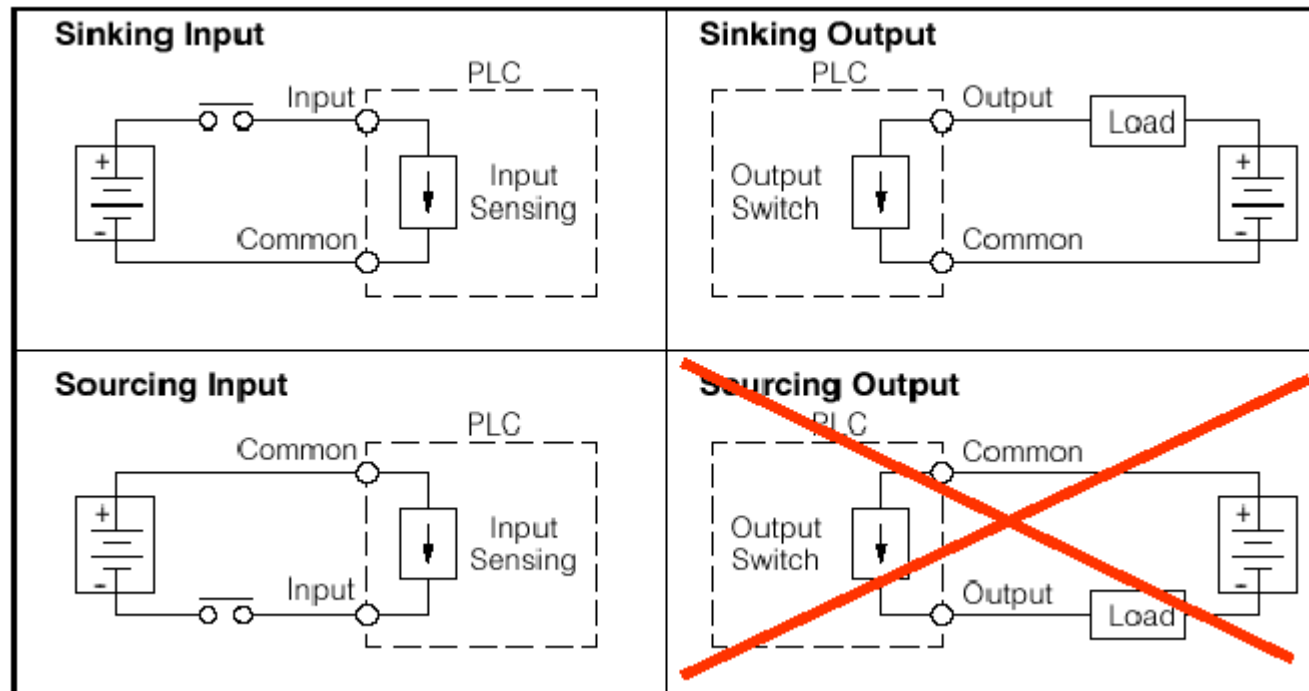- Control Outputs

PLC Isolation

Safety Shutdown

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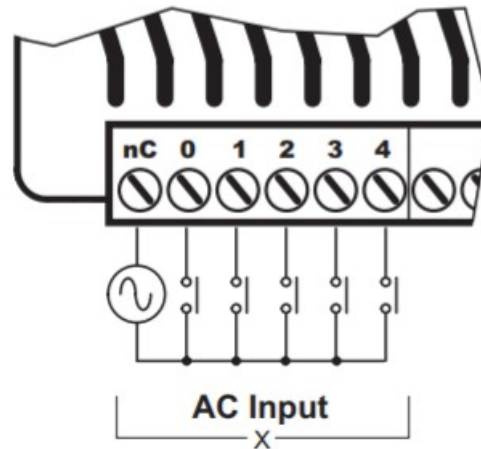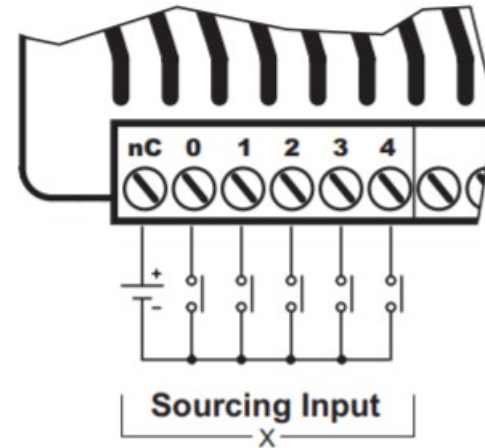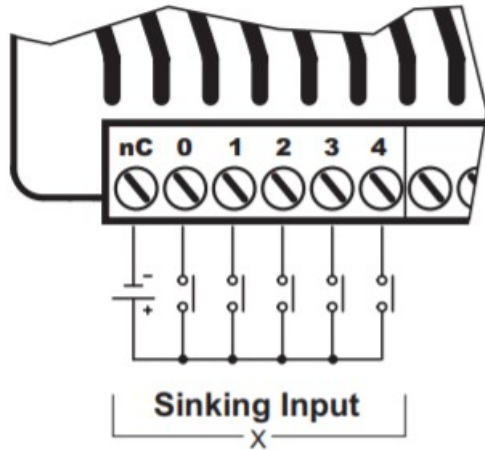
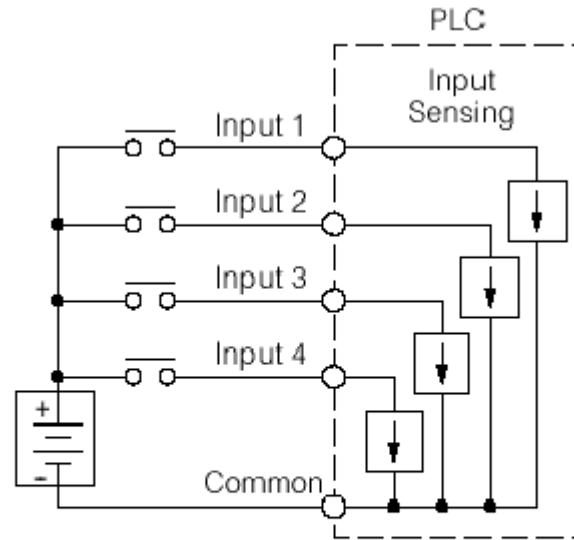# Power Wiring

Sinking and Sourcing

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

PLC Signal Inputs

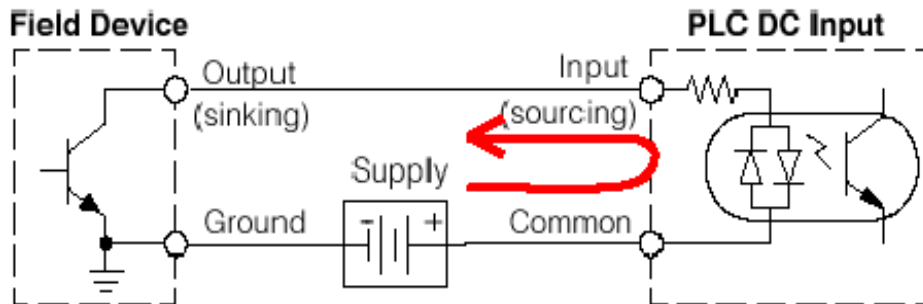Sinking Input

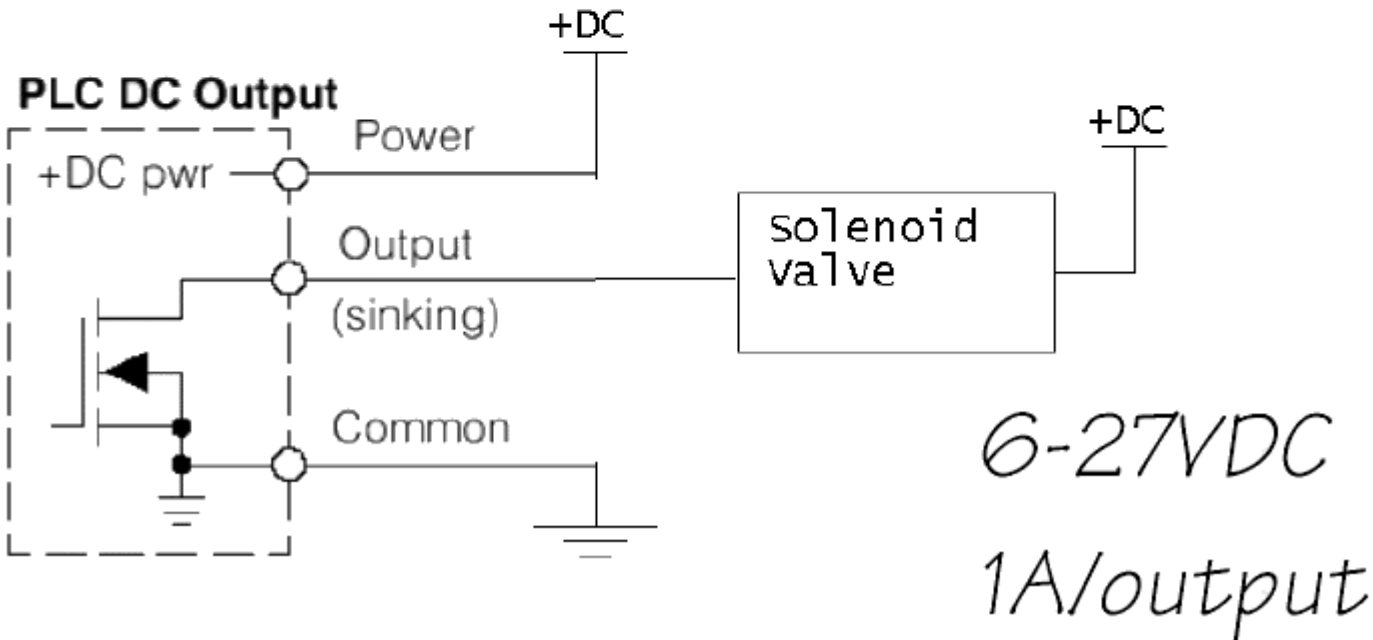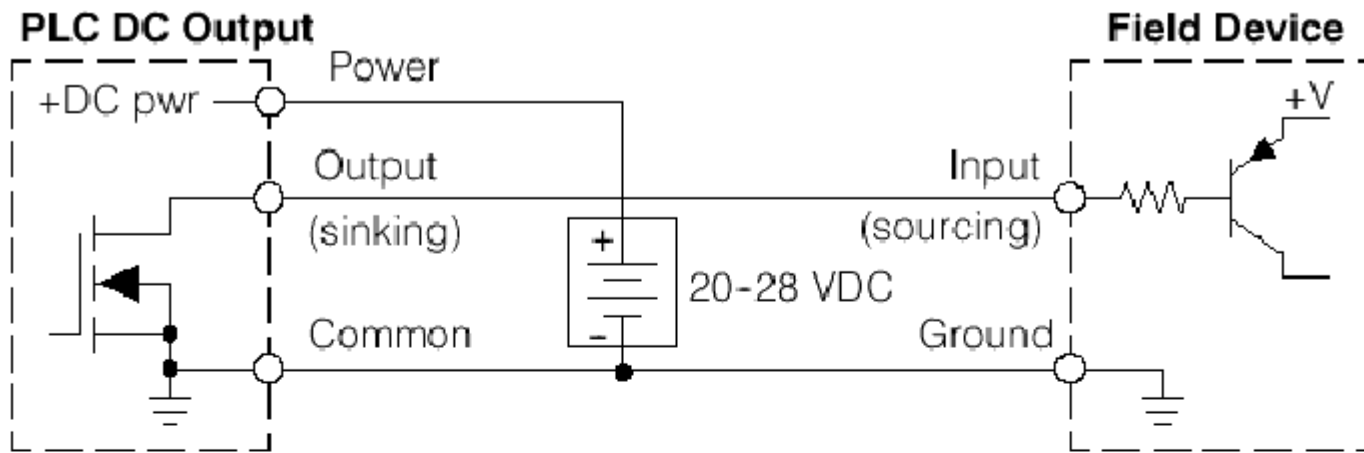Sourcing Input

AC Input

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

DC Control Outputs

DC Control Outputs