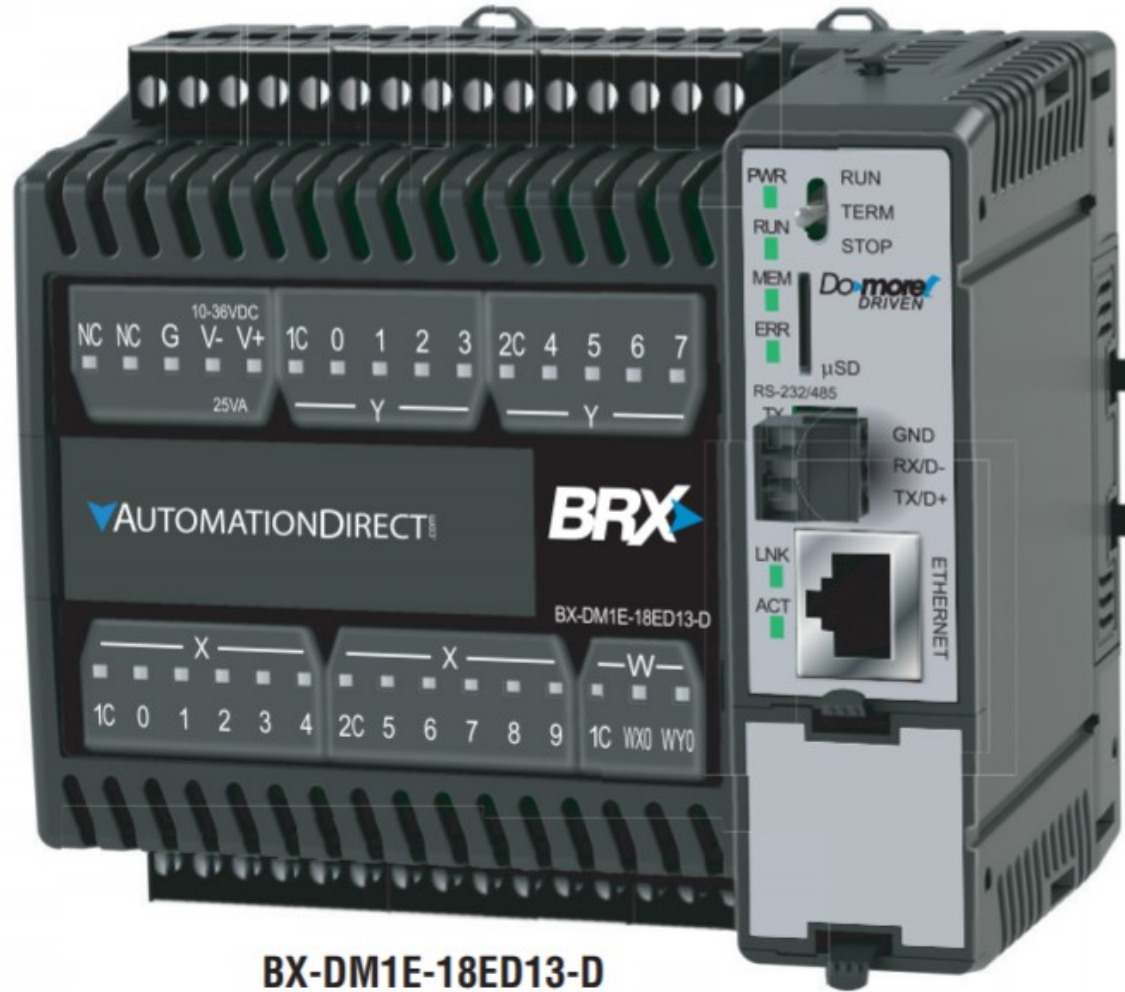


PLC FRONT PANEL

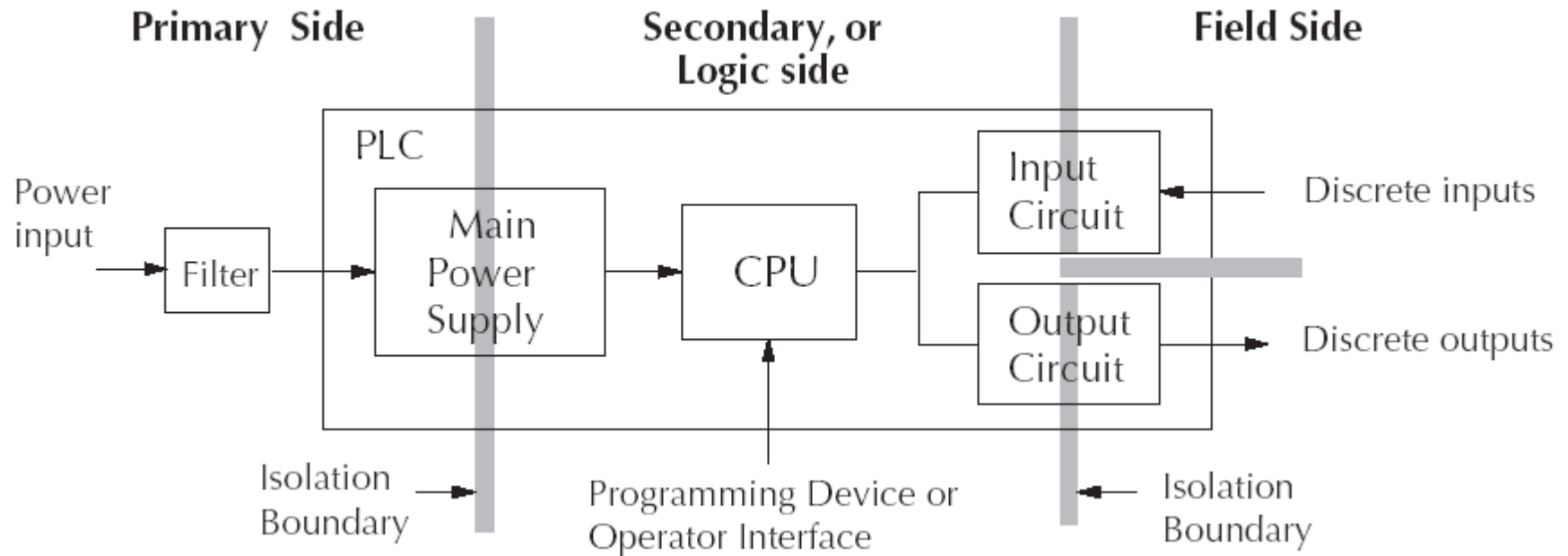


PLC WIRING

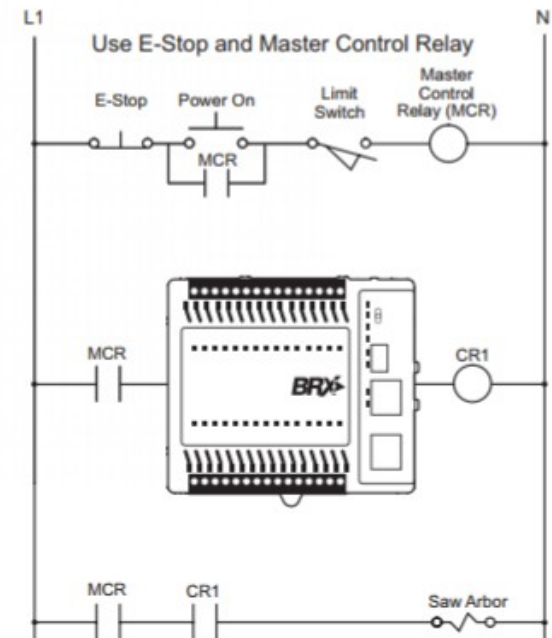
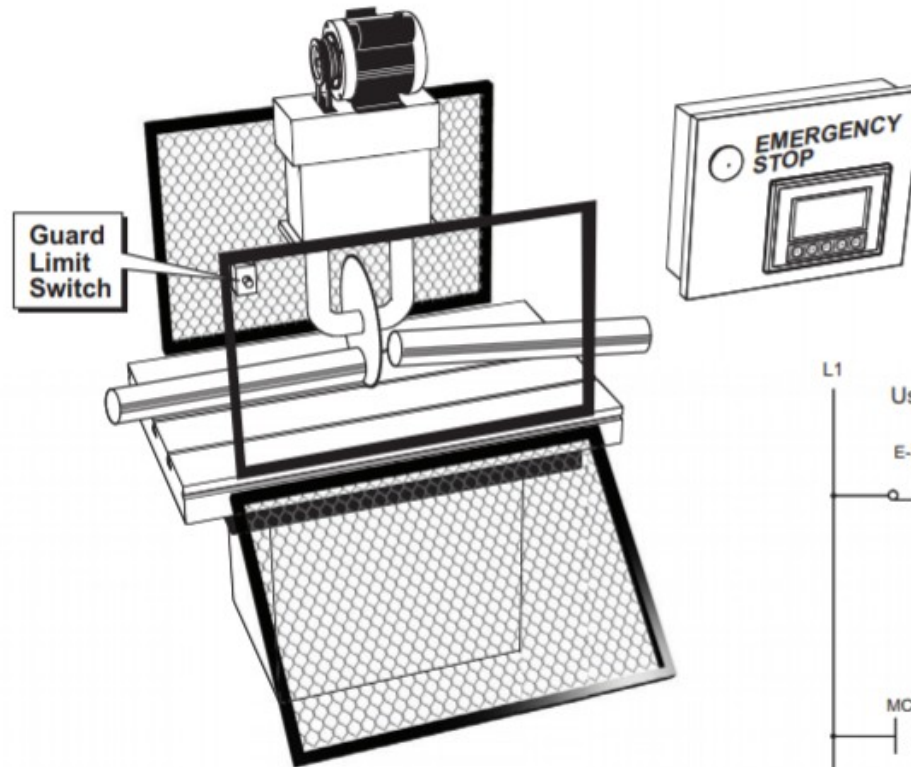
- Power Inputs
- Signal Inputs
- Control Outputs



PLC ISOLATION

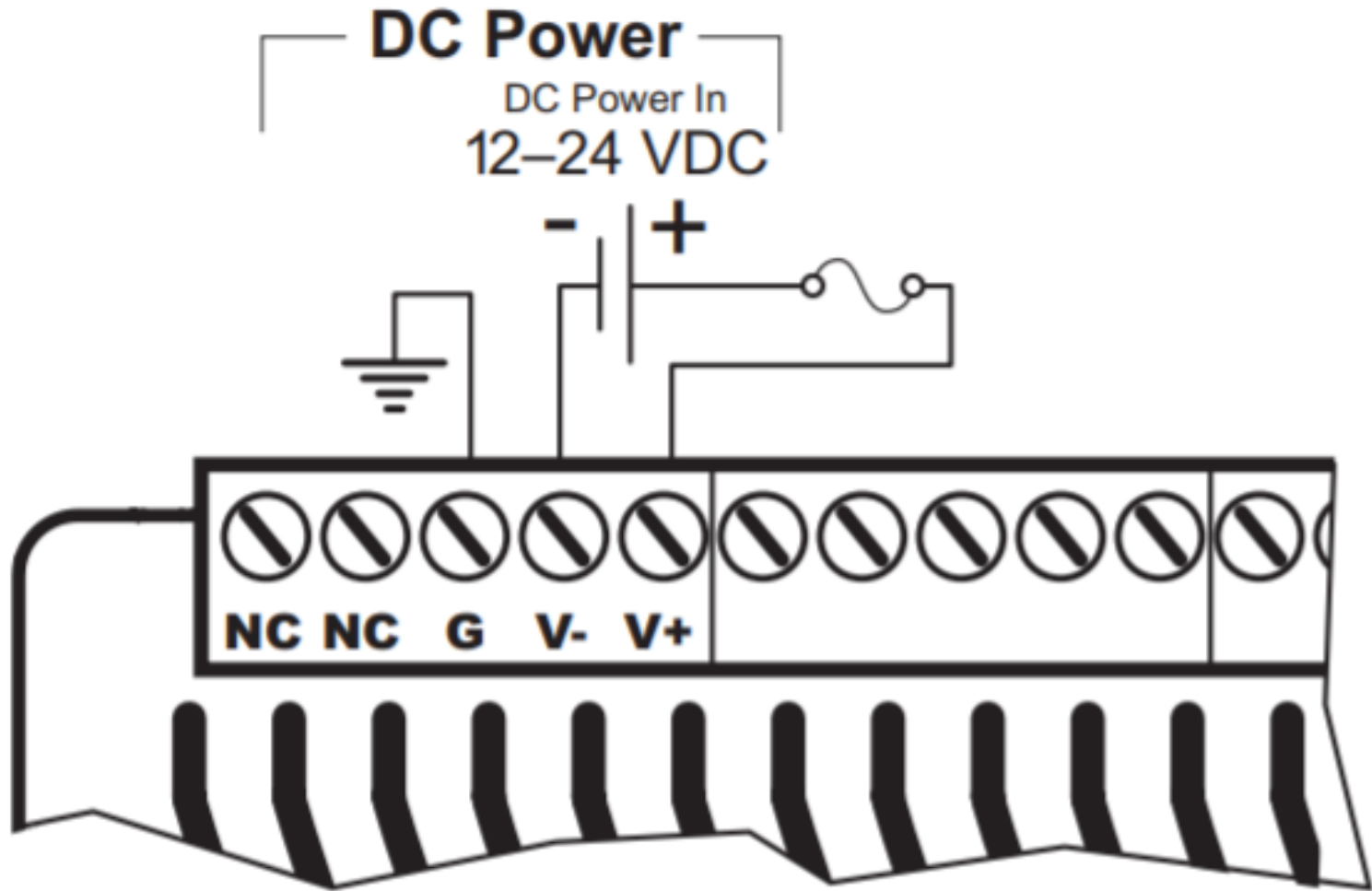


SAFETY SHUTDOWN

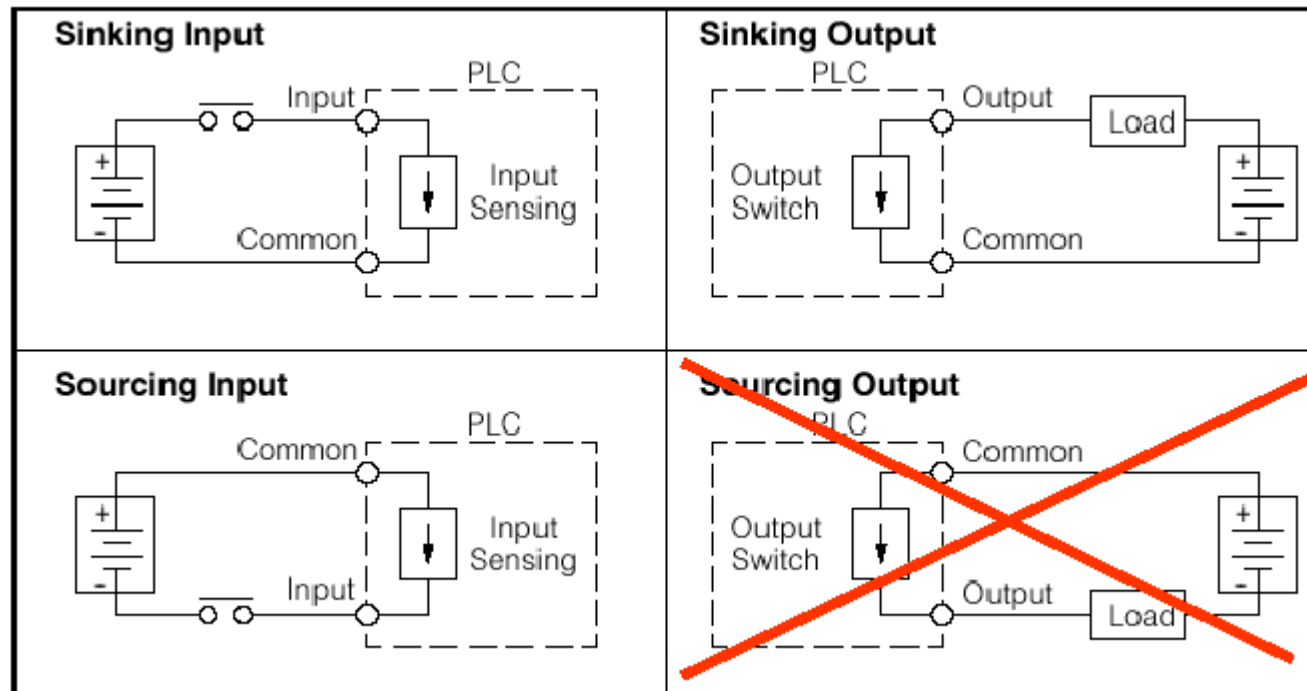


- Three levels of protection:
 - PLC logic - shutdown sequence
 - PLC output power disconnect
 - E-Stop shutdown of all energy sources

POWER WIRING

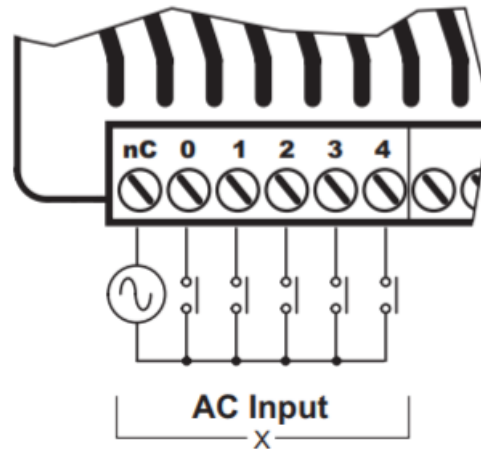
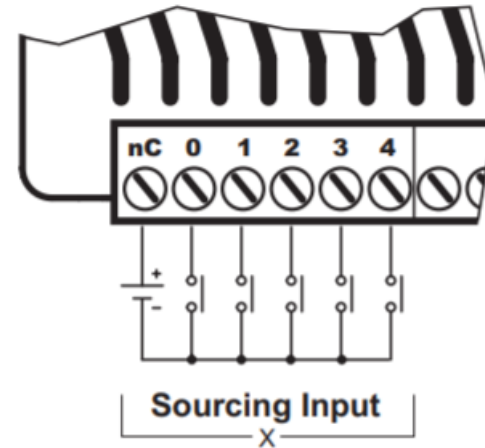
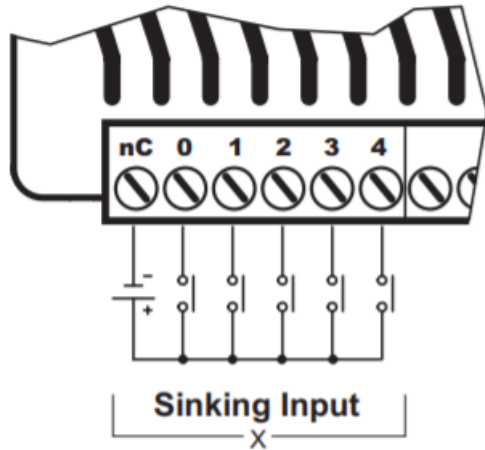


SINKING AND SOURCING

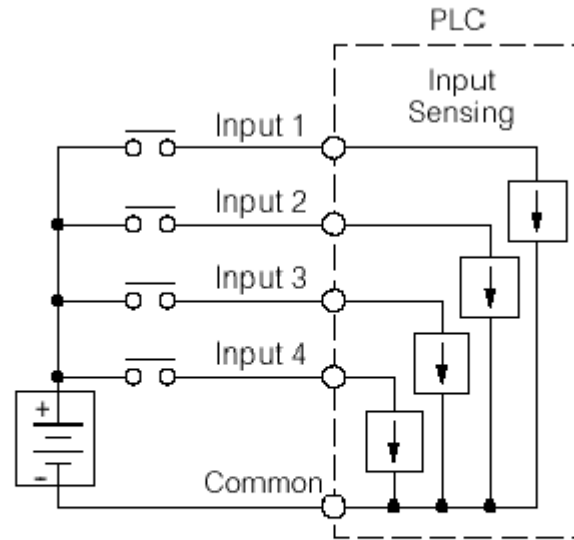


- Sinking = drawing current
- Sourcing = supplying current
- Sinking output connects to sourcing input
- Sourcing output connects to sinking input

PLC SIGNAL INPUTS



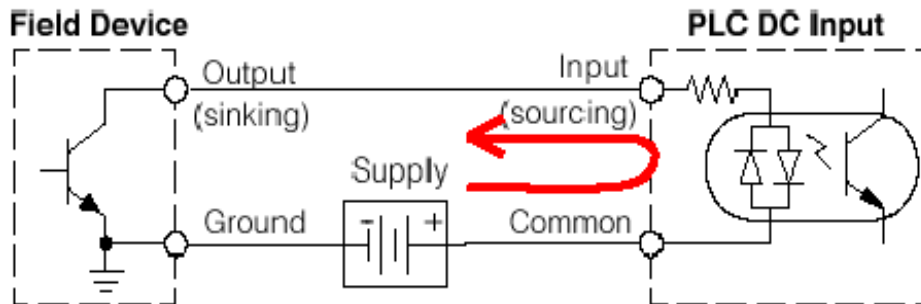
SIGNAL INPUTS



Multiple sinking inputs

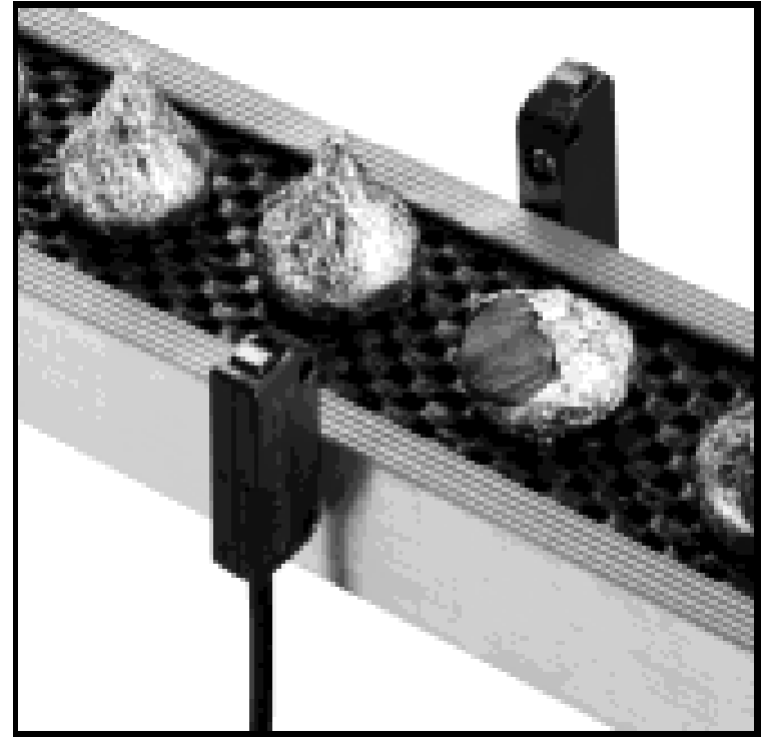
TYPICAL INPUT DEVICE

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

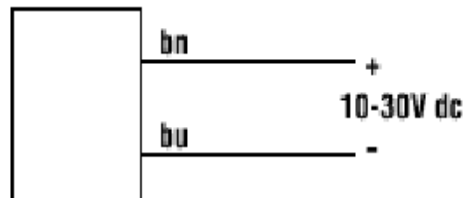


ANOTHER INPUT DEVICE

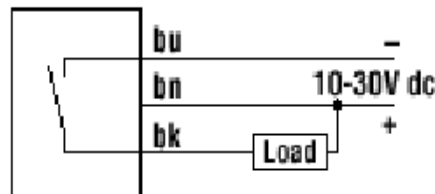
- Photosensor –
comes in either
NPN (sinking) or
PNP (sourcing)



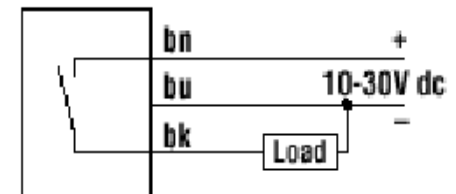
Emitters
Cabled Hookup



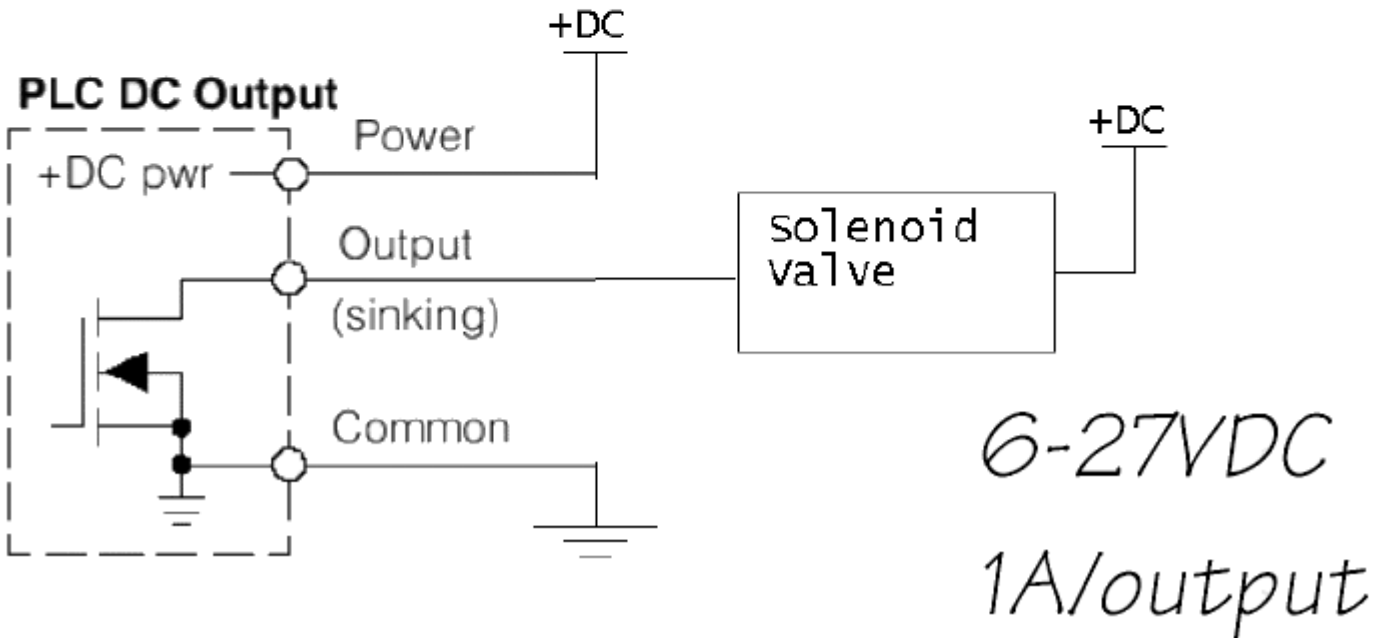
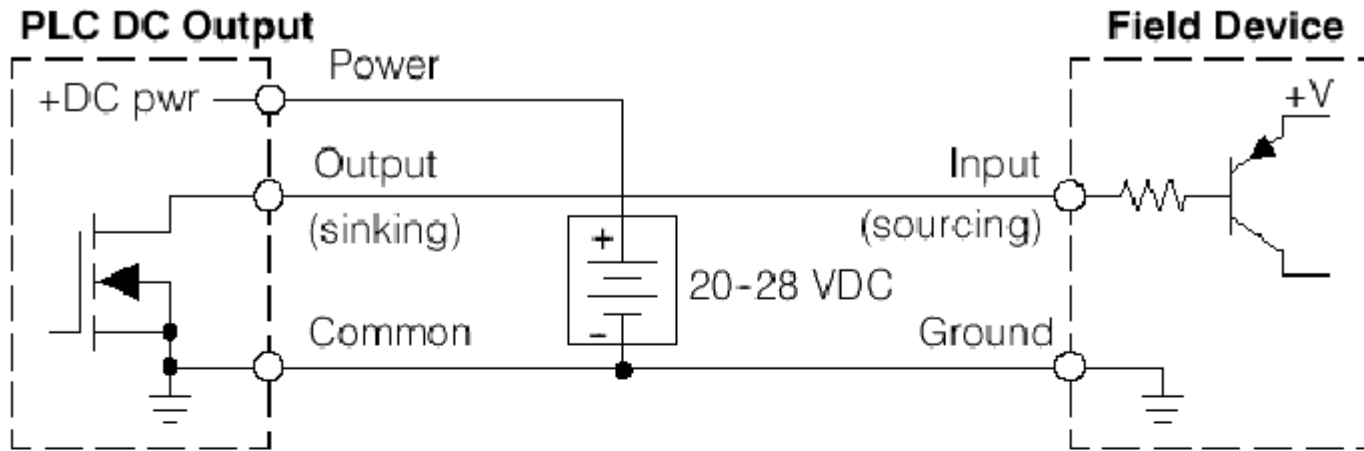
Receivers with NPN Outputs
Cabled Hookup



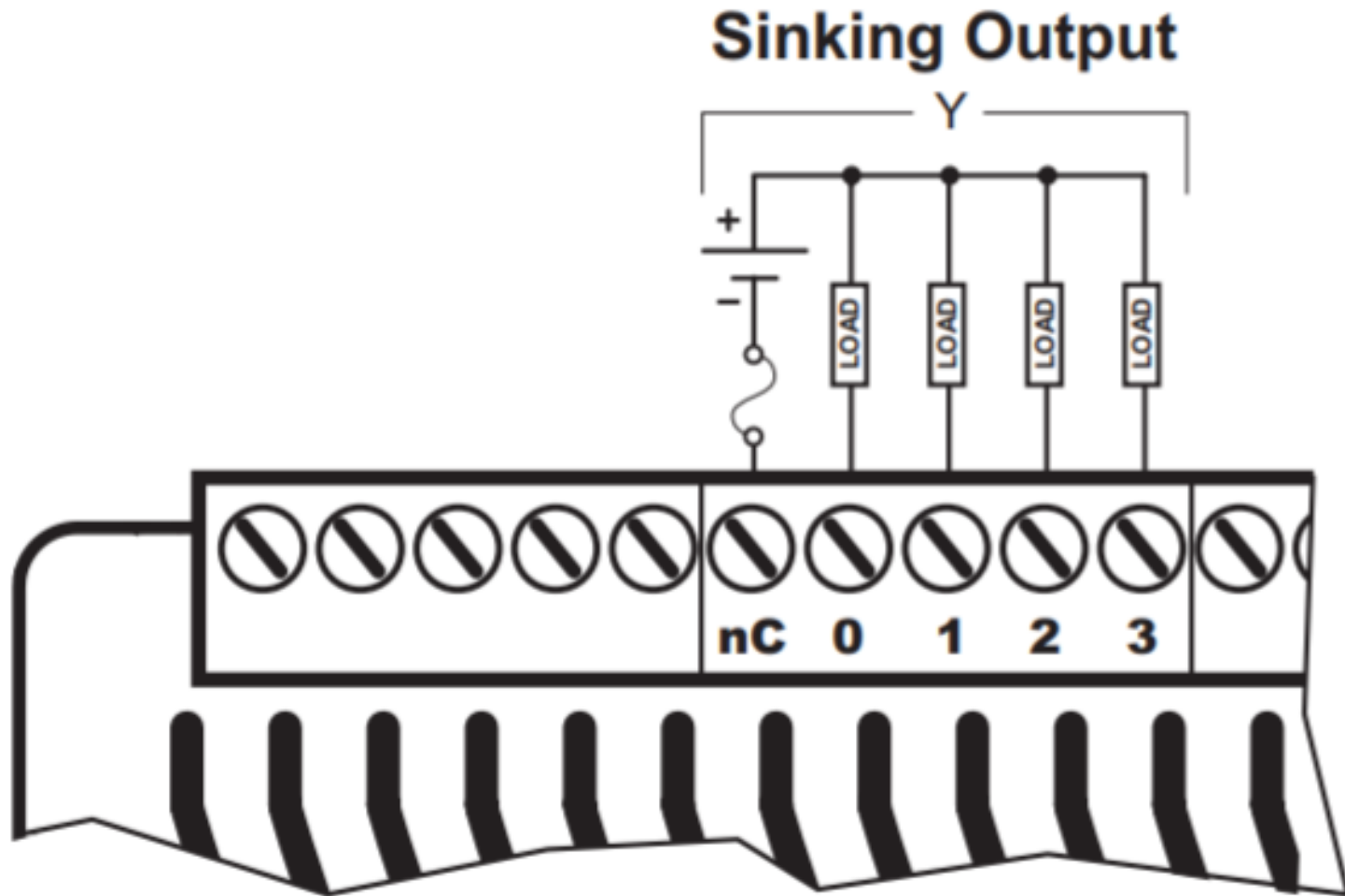
Receivers with PNP Outputs
Cabled Hookup



DC CONTROL OUTPUTS



DC CONTROL OUTPUTS



WIRING METHODS

