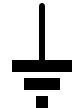


Structured Electronic Design

Amplifiers: Port Isolation

Ground node

Ground node

 Safety ground: zero-voltage reference node

Ground node

- ⏏ Safety ground: zero-voltage reference node
- ⊥ Signal ground: signal return path

Ground node

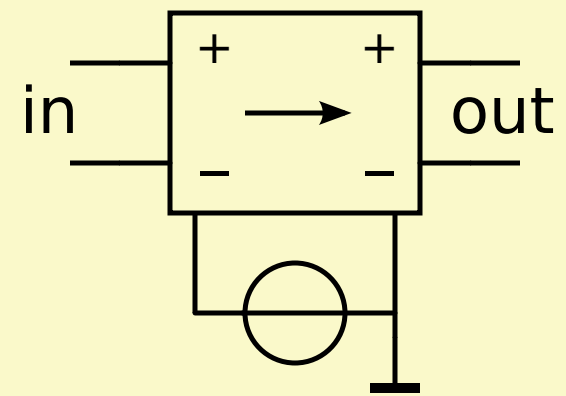
⏏ Safety ground: zero-voltage reference node

⊥ Signal ground: signal return path

May be shared by amplifier ports

Port Isolation Configurations

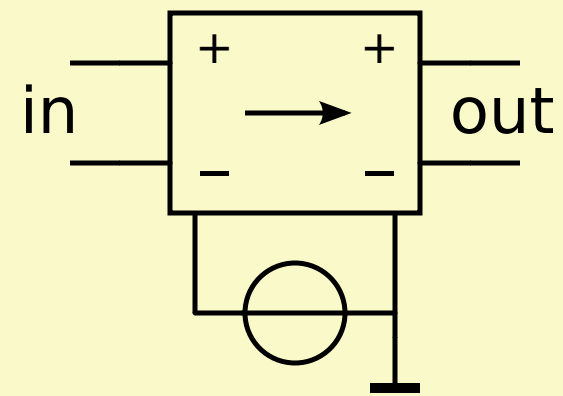
differential
receiver-driver



power
supply

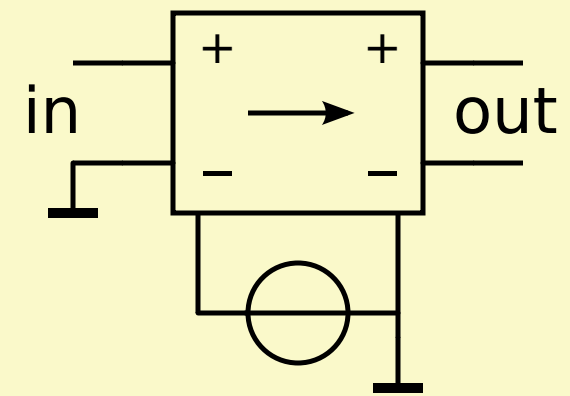
Port Isolation Configurations

differential
receiver-driver



power
supply

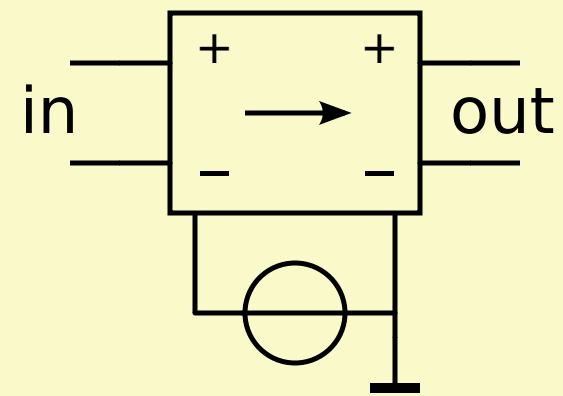
differential
driver



power
supply

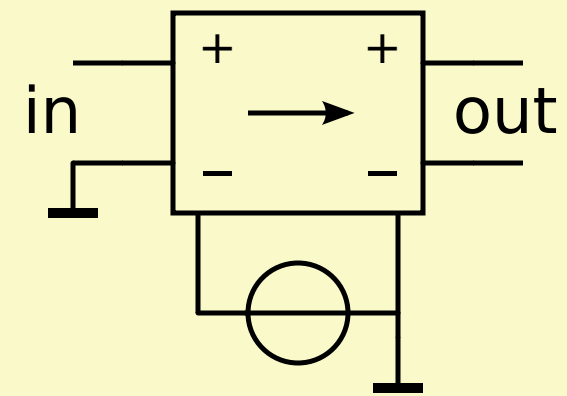
Port Isolation Configurations

differential receiver-driver



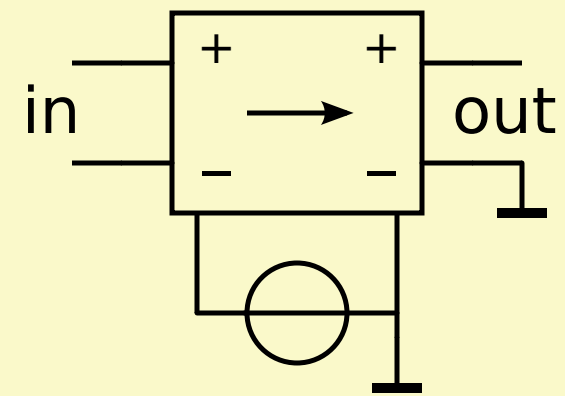
power supply

differential driver



power supply

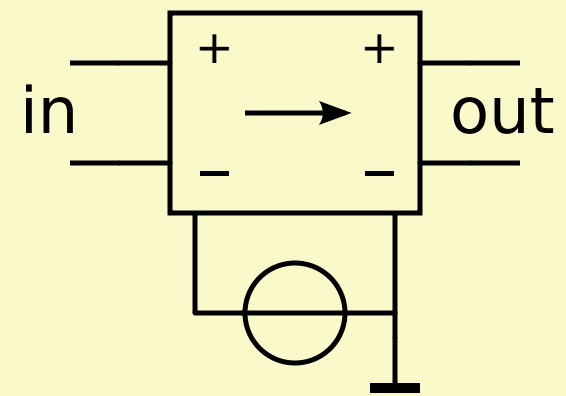
differential receiver or instrumentation amplifier



power supply

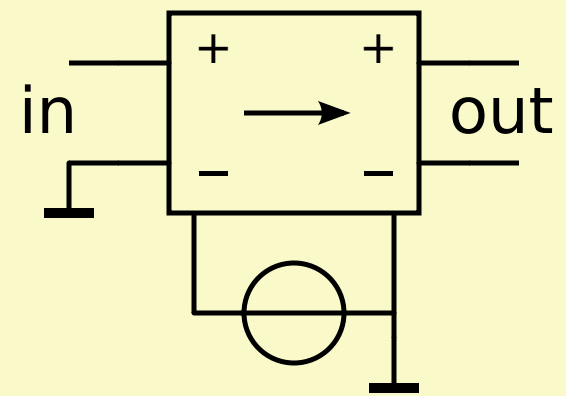
Port Isolation Configurations

differential receiver-driver



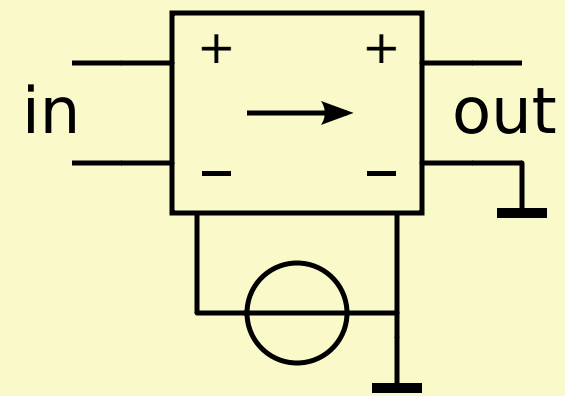
power supply

differential driver



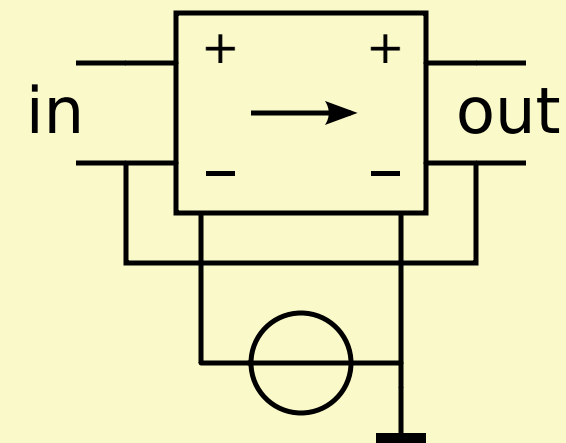
power supply

differential receiver or instrumentation amplifier



power supply

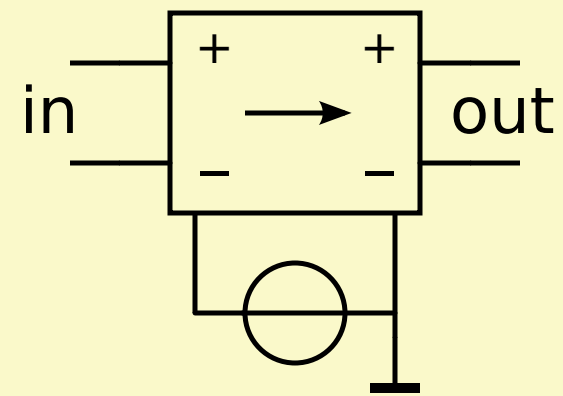
isolated power



power supply

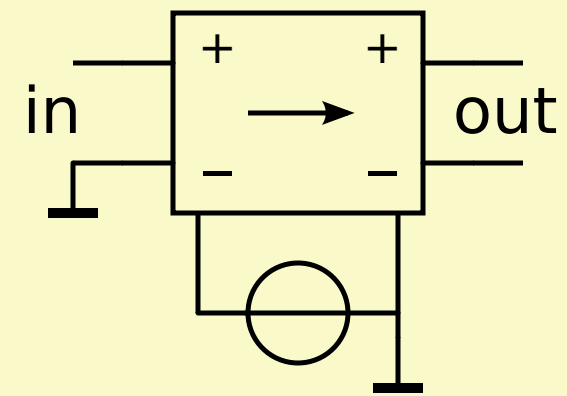
Port Isolation Configurations

differential receiver-driver



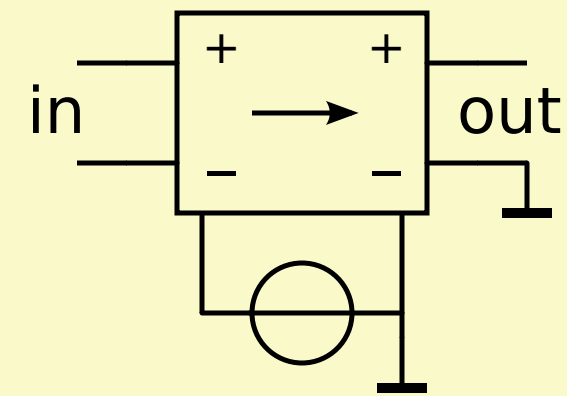
power supply

differential driver



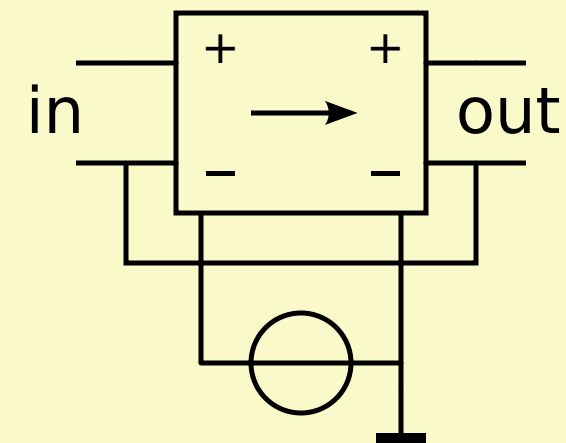
power supply

differential receiver or instrumentation amplifier



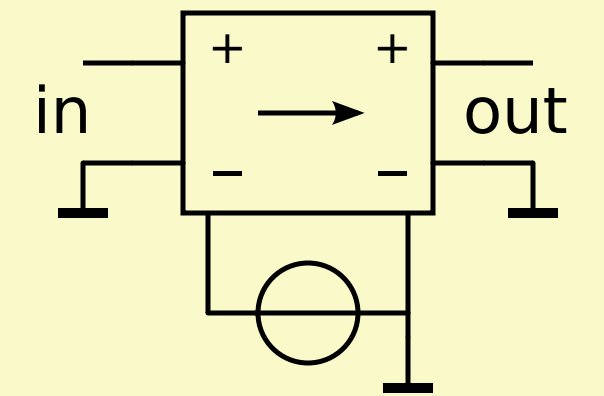
power supply

isolated power



power supply

common ground



power supply