

7.2.10 Digital Inputs/Outputs (DIO)

The camera system can be configured with up to four inputs or four outputs. Each pin can be set as an input or output. The number of inputs/outputs depends on which I/O cable is ordered:

- Cable with stripped leads: Four inputs or four outputs are available.
- Cable with MS connector: Three inputs or three outputs are available.

7.2.10.1 Inputs

The inputs can be configured to initiate an event either when a contact closure between an Input and I/O Common is detected or when an open circuit between an Input and I/O Common is detected.

Caution: Do not connect a power source to the inputs.

7.2.10.2 Outputs

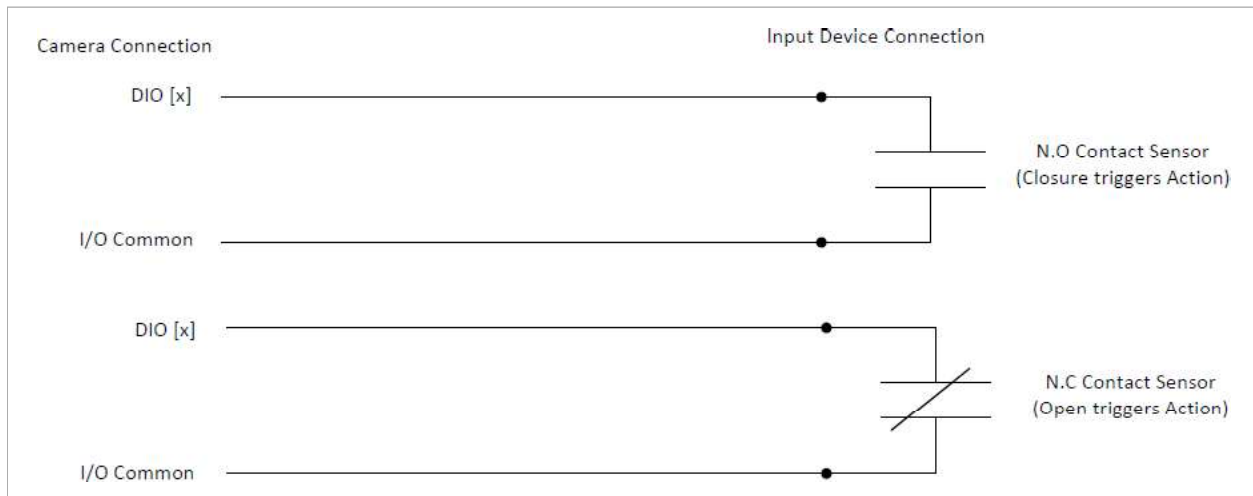
The Outputs can be set up to be latched or momentary with programmable momentary duration. When an event is generated by the camera the Output acts as a relay to control external components.

Caution: The source voltage for any Output must not exceed 60 Vdc, and the maximum current must not exceed 500 mA.

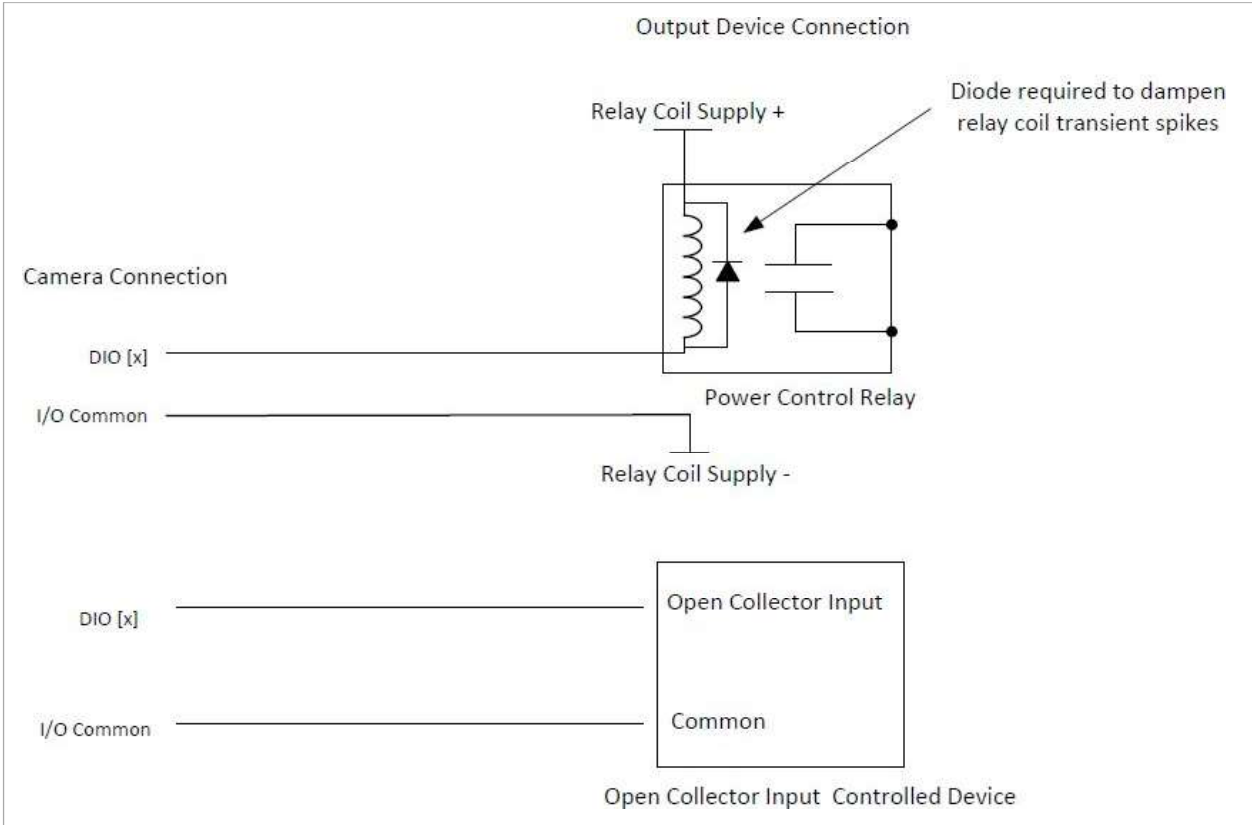
7.2.10.3 Wiring Digital Inputs/Outputs (DIO)

The following are interconnection diagrams for the DIO circuits for input and output device applications. Refer to appropriate camera system model number connector diagram for I/O pin numbers.

Digital Input Wiring Example



Digital Output Wiring Example

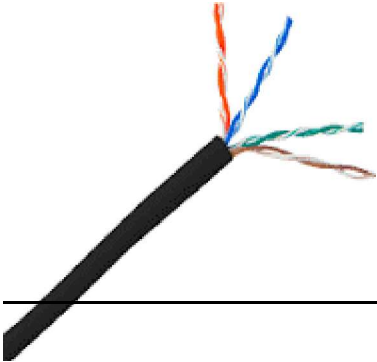


7.2.11 Field Cables

- All system cables must be shielded, and the shield(s) must be bonded to earth ground.
- All Ethernet wiring must be done in accordance with TIA/EIA 568-C standards.

To build the camera system cables, CohuHD recommends:

- **For Ethernet/PoE++:** CohuHD p/n 7610179-001.



Note: The maximum cable length for Ethernet is 100 m (328'). However, other factors may reduce the distance Ethernet can be successfully used, such as EMI from other sources.

When wiring to the Ethernet pins, consider whether they are to be wired for the NIC (Network Interface Card) in a PC or for system connections to a hub, switch, router, or similar device.