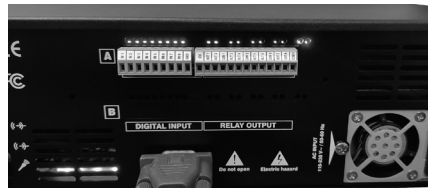


# Types of Relays

## Type-A



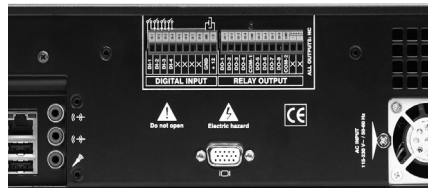
Internal



USB

P. 02-03

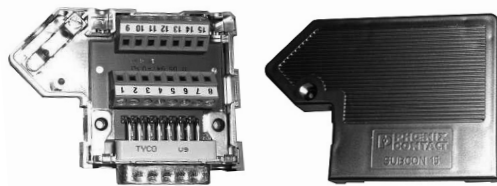
## Type-C



Internal

P. 04

## Type-W



Internal

P. 05-07

## Type-M



USB

P. 08

## Type-Sea Level 4



USB

P. 09

## Type-Sea Level 16



USB

P. 10

## Type-Sea Level 32

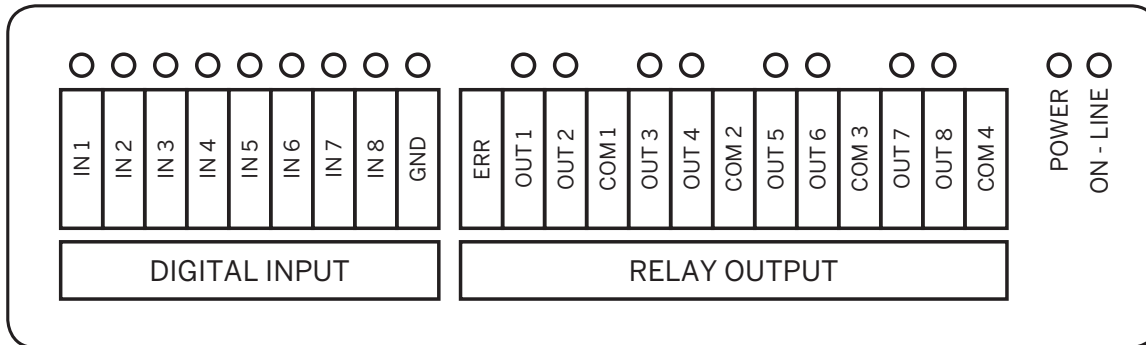


USB

P. 10

# Type-A

## Input/Output pinout



### Inputs or Partitions (Digital Input)

- Optically isolated inputs
- Input voltage from 4.5 Vcc to 20 Vcc (max. 30 Vcc)
- Red leds on when inputs are enabled

### Outputs or Relays (Relay Output)\*

- Dry contacts (no voltage)
- Max power: DC24V 1A
- Green leds on when relays are enabled
- Normally closed (N/C) but they can be configured individually as N/O by changing a jumper for each relay, located inside the unit

#### Inputs

- **Input 1** (IN 1 and GND pins)
- **Input 2** (IN 2 and GND pins)
- **Input 3** (IN 3 and GND pins)
- **Input 4** (IN 4 and GND pins)
- **Input 5** (IN 5 and GND pins)
- **Input 6** (IN 6 and GND pins)
- **Input 7** (IN 7 and GND pins)
- **Input 8** (IN 8 and GND pins)

- Power led (yellow): enabled when I/O board is properly powered
- On-line led (blue): enabled when I/O board has been detected and enabled by the system

#### Relays

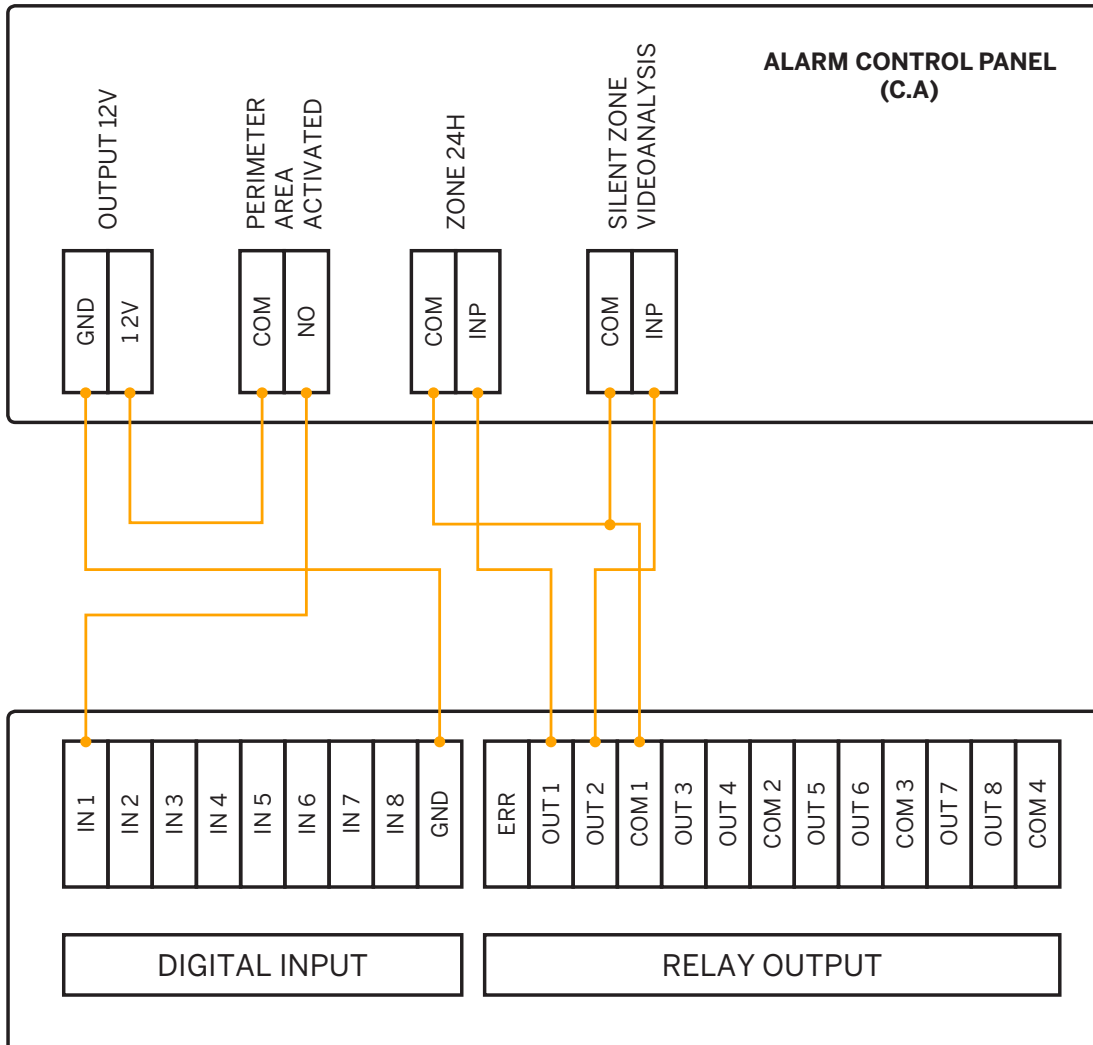
- **Relay 1** (OUT 1 and COM 1)
- **Relay 2** (OUT 2 and COM 1)
- **Relay 3** (OUT 3 and COM 2)
- **Relay 4** (OUT 4 and COM 2)
- **Relay 5** (OUT 5 and COM 3)
- **Relay 6** (OUT 6 and COM 3)
- **Relay 7** (OUT 7 and COM 4)
- **Relay 8** (OUT 8 and COM 4)
- Malfunction detection (ERR and COM 1 pins). Closed means system error or power loss

\*Depends on product license acquired

- No license: 8 inputs, no outputs
- License Rel4IA: 8 inputs, 4 relay outputs
- License Rel8IA: 8 inputs, 8 relay outputs

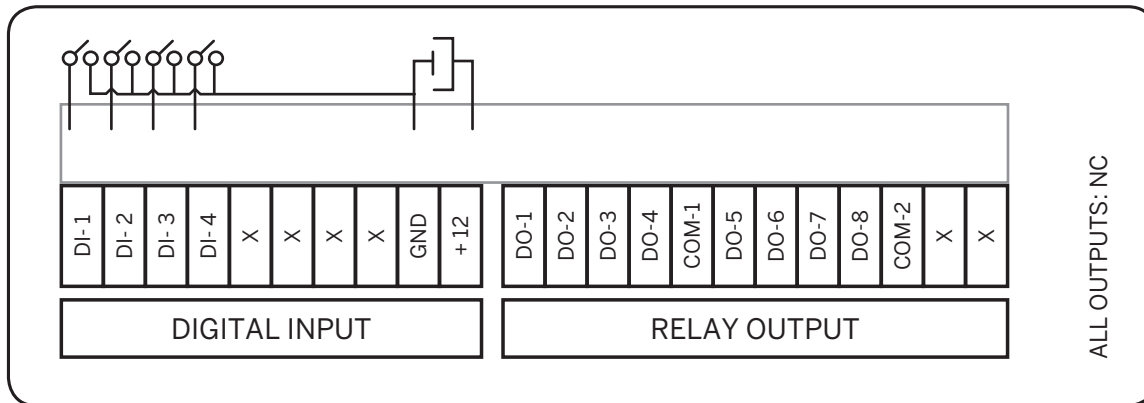
# Type-A Input/Output pinout

## Example



# Type-C

## Input/Output pinout



### Inputs or Partitions (Digital Input)

- Dry contacts (no voltage)

### Outputs or Relays (Relay Output)\*

- Dry contacts (no voltage)
- Max power: DC24V 3A, AC120V 3A
- Normally closed (N/C)

#### Inputs

- **Input 1** (DI-1 and GND pins)
- **Input 2** (DI-2 and GND pins)
- **Input 3** (DI-3 and GND pins)
- **Input 4** (DI-4 and GND pins)

#### Relays

- **Relay 1** (DO-1 and COM 1)
- **Relay 2** (DO-2 and COM 1)
- **Relay 3** (DO-3 and COM 1)
- **Relay 4** (DO-4 and COM 1)
- **Relay 5** (DO-5 and COM 2)
- **Relay 6** (DO-6 and COM 2)
- **Relay 7** (DO-7 and COM 2)
- **Relay 8** (DO-8 and COM 2)

### External Power

- External power supply is needed to power the board (GND and +12 pins)
- Power consumption less than 45mA

\*Disponibility subject the product acquired

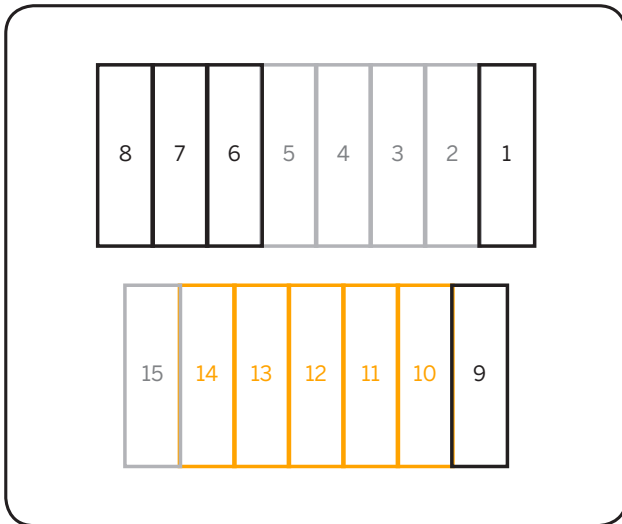
- No license: 4 inputs, no outputs
- License Rel4I: 4 inputs, 4 relay outputs
- License Rel8I: 4 inputs, 8 relay outputs

# Type-W

## Input/Output pinout

### Connector Version 1

---



Check out the pinout, connect the external signal to the external connector of the image

Use dry contact between "Zone #" and "GND Zone Com"

**IMPORTANT!** Dry contacts (no voltage)

#### Relays

- 1. Not used
- 2. Out 1
- 3. Out 2
- 4. Out 3
- 5. Out 4
- 6. +5V
- 7. +5V
- 8. Not used

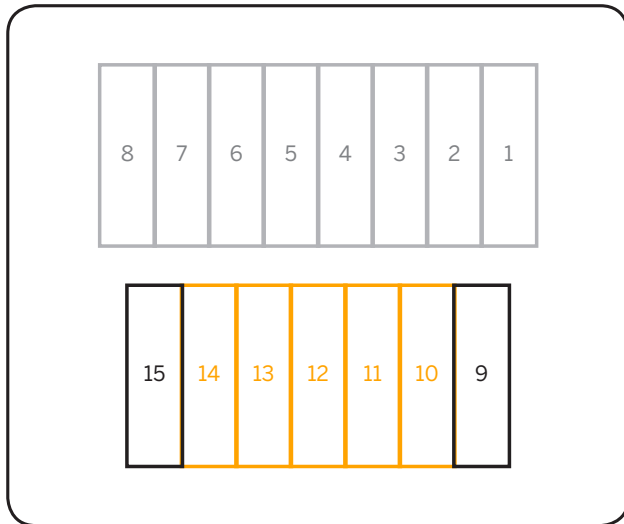
#### Inputs

- 9. Not used
- 10. Zone 4
- 11. Zone 3
- 12. Zone 2
- 13. Zone 1
- 14. GND Zone Com
- 15. GND Out Com

# Type-W Input/Output pinout

## Connector Version 2

---



### Inputs or Partitions (Digital Input)

- Use dry contact between “Zone#” and “GND Zone Com”

### Outputs or Relays (Relay Output)

- Max power: 1A at 60 V AC/DC

### Relays

- 1. Relay 1 Com
- 2. Relay 1 N/O
- 3. Relay 2 Com
- 4. Relay 2 N/O
- 5. Relay 3 Com
- 6. Relay 3 N/O
- 7. Relay 4 Com
- 8. Relay 4 N/O

### Inputs

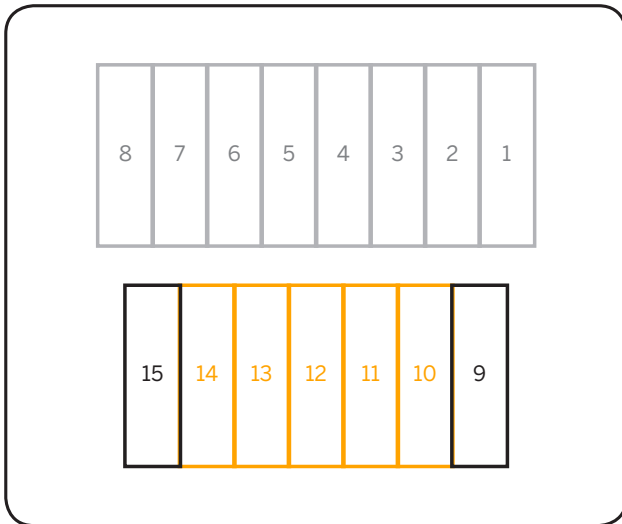
- 9. Not used
- 10. Zone 4
- 11. Zone 3
- 12. Zone 2
- 13. Zone 1
- 14. GND Zone Com
- 15. Not used

# Type-W

## Input pinout

### Connector Version 2

---



#### Inputs or Partitions (Digital Input)

- Use dry contact between “Zone#” and “GND Zone Com”

#### Relays

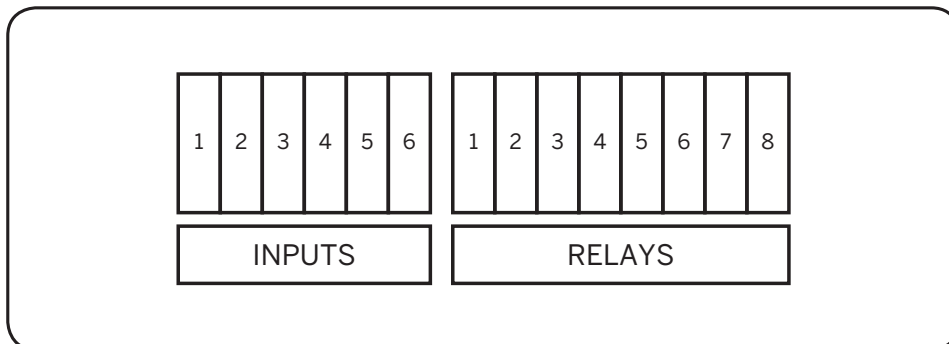
- 1. Not used
- 2. Not used
- 3. Not used
- 4. Not used
- 5. Not used
- 6. Not used
- 7. Not used
- 8. Not used

#### Inputs

- 9. Not used
- 10. Zone 4
- 11. Zone 3
- 12. Zone 2
- 13. Zone 1
- 14. GND Zone Com
- 15. Not used

# Type-M

## Input/Output pinout



### Input Connector (Optocoupler Isolated)

- Input #1 & #2 share a common ground
- Input #3 & #4 share a common ground
- If you need 100% isolation use only 1 input of each group
- All connectors come with their elevator clamps up, turn the screws counterclockwise to lower them to allow insertion of wires

### Outputs or Relays (Relay Output)

- Dry contacts (1A max)
- Located inside the box are 4 jumpers, one for each relay. This allows a change of Normally-Open to Normally-Close for each relay. Just move the relay's jumper from position 1-2 to 2-3 for NC. **Default is Normally-Open**

#### Inputs

- **1. Input 1** Voltage Input (5 - 30V)
- **2. Input 1 & 2** Ground (common)
- **3. Input 2** Voltage Input (5 - 30V)
- **4. Input 3** Voltage Input (5 - 30V)
- **5. Input 3 & 4** Ground (common)
- **6. Input 4** Voltage Input (5 - 30V)

#### Relays

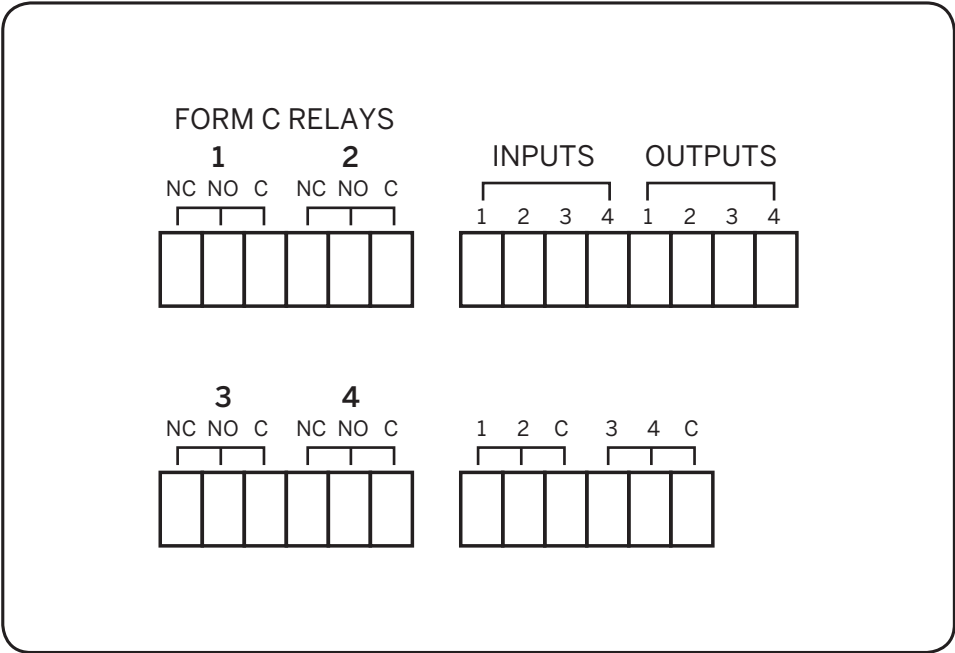
- **1. Relay 1** Common
- **2. Relay 1** Output (NO/NC)
- **3. Relay 2** Common
- **4. Relay 2** Output (NO/NC)
- **5. Relay 3** Common
- **6. Relay 3** Output (NO/NC)
- **7. Relay 4** Common
- **8. Relay 4** Output (NO/NC)

### Connection to Daview

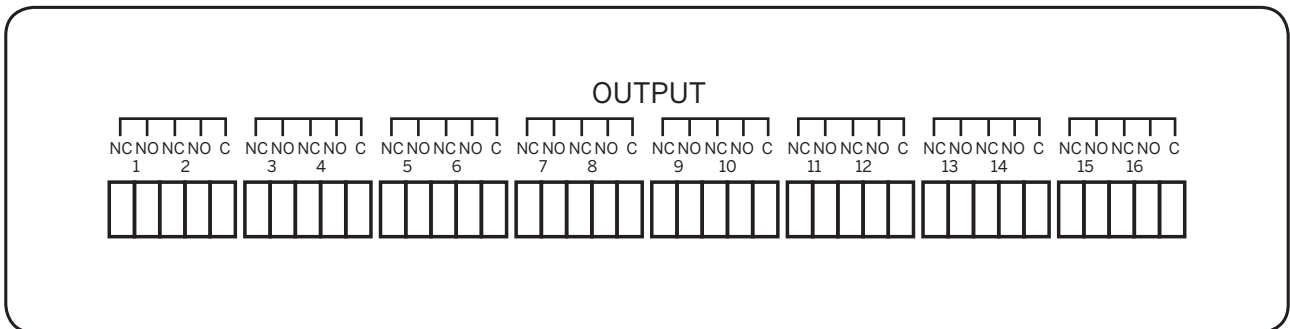
Use the supplied USB cable to connect the USB Jack on the I/O module, then connect to available USB port on Daview unit



# Type- Sea Level 4 Input/Output pinout



# Type- Sea Level 16 Input/Output pinout



# Type- Sea Level 32 Input/Output pinout

