

[DIGITAL I/O] USB

Wiring distance may vary depending on the product specifications and application environment. Please choose an appropriate cable.

## Opto-Isolated Digital Input (cable included)

### DI-16(USB)GY



- FEATURES**
- ★ On-board trigger monitoring
  - ★ 2 screwless connectors allow wires to be easily attached and detached without any special tools
  - ★ Input channels can be expanded by use of extension modules (3 modules - max)
  - ★ DIN rail mountable (35mm)
  - Sample development and utility debugging software included



#### ■ Specifications

|                  |  |
|------------------|--|
| Input channels   | 16   |
| Input type       | Opto-Isolated<br>(for high sink current / source current output) |
| Input resistance | 3kΩ  |
| Response time    | 1msec (max) *2   |
| Connector        | (FK-MC 0.5/9-ST2.5 [PHOENIX CONTACT])                            |

|                       |   |
|-----------------------|---|
| Wiring distance       | 50m (max)                                   |
| USB speed             | 12Mbps <Full speed><br>480Mbps <High speed> |
| Power consumption     | +5VDC 450mA (max) *1                        |
| Dimensions (mm)       | 50.4(W) x 64.7(D) x 94.0(H)                 |
| Weight                | 100g  |
| Attached cable length | 1.8m  |

#### ■ Options

|                |   |
|----------------|---|
| ACX-PAC(W32)BP | ActiveX Component Base Package (Ver.3.1 up)   |
| DI-16(FIT)GY   | Expansion Module: Opto-isolated Digital Input<br>16 input channels / Power consumption: +5VDC 150mA (max) |
| POA-AD22       | AC adapter (AC in: 90~264VAC, DC out: 5VDC 2.0A, Length of cable: 1.4m)                                   |
| POW-AD13GY     | AC-DC Power Unit (AC in: 85~132VAC, DC out: 5VDC 3.0A)  |
| POW-AD22GY     | AC-DC Power Unit (AC in: 85~264VAC, DC out: 5VDC 2.0A)  |
| POW-DD10GY     | DC-DC Power Unit (DC in: 10~30VDC, DC out: 5VDC 3.0A)   |
| POW-DD43GY     | DC-DC Power Unit (DC in: 30~50VDC, DC out: 5VDC 3.0A)   |

Includes API-USBP(WDM) [API function library]

\*1: When using expansion module, current consumption may exceed 500mA.

\*2: Module will execute API function via USB communication, time required for execution is several milliseconds.

## Opto-Isolated Digital Output (cable included)

### DO-16(USB)GY



- FEATURES**
- ★ Output is designed to work with large capacities, 24VDC, 150mA (max) per channel Transistor Output (Drives LED display directly)
  - ★ 2 screwless connectors allow wires to be easily attached and detached without any special tools
  - ★ Output channels can be expanded by use of extension modules (3 modules - max)
  - ★ DIN rail mountable (35mm)
  - Sample development and utility debugging software included



#### ■ Specifications

|                 |   |
|-----------------|---|
| Output channels | 16                                      |
| Output type     | Opto-Isolated<br>(current sinking type) |
| Output rating   | DC12~24V 150mA                          |
| Response time   | 1msec (max) *2                          |
| Connector       | FK-MC 0.5/9-ST-2.5 [PHOENIX CONTACT]    |

|                       |   |
|-----------------------|---|
| Wiring distance       | 50m (max)                                   |
| USB speed             | 12Mbps <Full speed><br>480Mbps <High speed> |
| Power consumption     | +5VDC 450mA (max) *1                        |
| Dimensions (mm)       | 50.4(W) x 64.7(D) x 94.0(H)                 |
| Weight                | 100g  |
| Attached cable length | 1.8m  |

#### ■ Options

|                |   |
|----------------|---|
| ACX-PAC(W32)BP | ActiveX Component Base Package (Ver.3.1 up)   |
| DO-16(FIT)GY   | Expansion Module: Opto-isolated Digital Output<br>16 output channels / Power consumption: +5VDC 150mA (max) |
| POA-AD22       | AC adapter (AC in: 90~264VAC, DC out: 5VDC 2.0A, Cable length: 1.4m)  |
| POW-AD13GY     | AC-DC Power Unit (AC in: 85~132VAC, DC out: 5VDC 3.0A)  |
| POW-AD22GY     | AC-DC Power Unit (AC in: 85~264VAC, DC out: 5VDC 2.0A)  |
| POW-DD10GY     | DC-DC Power Unit (DC in: 10~30VDC, DC out: 5VDC 3.0A)   |
| POW-DD43GY     | DC-DC Power Unit (DC in: 30~50VDC, DC out: 5VDC 3.0A)   |

Includes API-USBP(WDM) [API function library]

\*1: When using expansion module, current consumption may exceed 500mA.

\*2: Module will execute API function via USB communication, time required for execution is several milliseconds.

## Opto-Isolated Digital I/O (cable included)

### PIO-8/8(USB)GY



- FEATURES**
- ★ On-board trigger monitoring
  - ★ Output is designed to work with large capacities, 24VDC, 150mA (max) per channel Transistor Output (Drives LED display directly)
  - ★ 2 screwless connectors allow wires to be easily attached and detached without any special tools
  - ★ Output channels can be expanded by use of extension modules (3 modules - max)
  - ★ DIN rail mountable (35mm)
  - Sample development and utility debugging software included



#### ■ Specifications

|                       |   |
|-----------------------|---|
| Input channels        | 8   |
| Output channels       | 8   |
| Input specifications  |   |
| Type                  | Opto-Isolated<br>(for high sink current output / for source current output) |
| Resistance            | 3kΩ   |
| Output specifications |   |
| Type                  | Opto-Isolated<br>(current sinking type)                                     |
| Rating                | DC12~24V 150mA  |

|                       |   |
|-----------------------|---|
| Response time         | 1msec (max) *2                              |
| Connector             | FK-MC 0.5/9-ST-2.5 [PHOENIX CONTACT]        |
| Wiring distance       | 50m (max)                                   |
| USB speed             | 12Mbps <Full speed><br>480Mbps <High speed> |
| Power consumption     | +5VDC 450mA (max) *1                        |
| Dimensions (mm)       | 50.4(W) x 64.7(D) x 94.0(H)                 |
| Weight                | 100g  |
| Attached cable length | 1.8m  |

#### ■ Options

|                |   |
|----------------|---|
| ACX-PAC(W32)BP | ActiveX Component Base Package (Ver.3.1 up)   |
| PIO-8/8(FIT)GY | Expansion Module: Opto-isolated Digital I/O<br>8 input channels, 8 output channels / Power consumption: +5VDC 150mA (max) |
| POA-AD22       | AC adapter (AC in: 90~264VAC, DC out: 5VDC 2.0A, Length of cable: 1.4m)   |
| POW-AD13GY     | AC-DC Power Unit (AC in: 85~132VAC, DC out: 5VDC 3.0A)  |
| POW-AD22GY     | AC-DC Power Unit (AC in: 85~264VAC, DC out: 5VDC 2.0A)  |
| POW-DD10GY     | DC-DC Power Unit (DC in: 10~30VDC, DC out: 5VDC 3.0A)   |
| POW-DD43GY     | DC-DC Power Unit (DC in: 30~50VDC, DC out: 5VDC 3.0A)   |

Includes API-USBP(WDM) [API function library]

\*1: When using expansion module, current consumption may exceed 500mA.

\*2: Module will execute API function via USB communication, time required for execution is several milliseconds.