APAX-5040
APAX-5045

24-ch Digital Input Module

24-ch Digital Input/Output Module

APAX-5040

RoHS COMPLIANT 2002/95/EC   CE FCC

APAX-5045

RoHS COMPLIANT 2002/95/EC   CE FCC

Specifications

General

- **Certification**   CE, FCC class A
- **Dimensions (W x H x D)**   30 x 139 x 100 mm
- **Enclosure**   ABS+PC
- **Weight**   160 g
- **Power Consumption**   2 W @ 24 V_{DC} (typical)
- **Status Display**   LED per channel
                               On: Logic level 1
                               Off: Logic level 0

Digital Input

- **Channels**   24
- **Points per Common**   12
- **Type**   Sink or Source Load
- **Input Voltage**   Rated Value: 24 V_{DC}
                               For "0" signal: - 5 ~ 5 V_{DC}
                               For "1" signal: 15 ~ 30 V_{DC} and -15 ~ -30 V_{DC}
- **Input Impedance**   10 kΩ
- **Input Delay**   From logic level 0 to 1: 0.2 ms
                               From logic level 1 to 0: 0.2 ms
- **Operating Frequency**   3 kHz
- **Input Filter**   3 ms

Protection

- **2,500 V_{DC} Isolation Between Channels and Backplane**
- **Over Voltage Protection**

Environment

- **Operating Temperature**   -10 ~ 60°C (when mounted vertically)
                               -20 ~ 70°C (for PE version)
- **Storage Temperature**   -40 ~ 70°C
- **Relative Humidity**   5 ~ 95% (non-condensing)

Ordering Information

- **APAX-5040**   24-ch Digital Input Module
- **APAX-5040PE**   24-ch Digital Input Module with Wide Temperature

Specifications

General

- **Certification**   CE, FCC class A
- **Dimensions (W x H x D)**   30 x 139 x 100 mm
- **Enclosure**   ABS+PC
- **Weight**   165 g
- **Power Consumption**   2.5 W @ 24 V_{DC} (typical)
- **Status Display**   LED per channel
                               On: Logic level 1
                               Off: Logic level 0

Digital Input

- **Channels**   12
- **Points per Common**   12
- **Type**   Sink or Source Load
- **Input Voltage**   Rated Value: 24 V_{DC}
                               For "0" signal: - 5 ~ 5 V_{DC}
                               For "1" signal: 15 ~ 30 V_{DC} and -15 ~ -30 V_{DC}
- **Input Impedance**   10 KΩ
- **Input Delay**   From Logic level 0 to 1: 0.2 ms
                               From Logic level 1 to 0: 0.2 ms
- **Operating Frequency**   3 kHz
- **Input Filter**   3 ms

Digital Output

- **Channels**   12 (Sink)
- **Voltage Range**   8 ~ 35 V_{DC}
- **Rated Current Output**   0.5 A (per channel, at signal "1")
- **Permitted Current Output** Max. 0.75 A (at signal "1")
- **Leakage Current**   0.1 mA (at signal "0")
- **Switch Rate:**   Resistive load: 300 Hz (max.)
                               Inductive load: max. 20 Hz (max.)
                               Lamp load: max. 200 Hz (5W lamp and under 50 Ω, 24 V)

Protection

- **2,500 V_{DC} Isolation Between Channels and Backplane**
- **Over Voltage Protection (for DI channel)**
- **Short Circuit Protection (For DO channel)**
- **Thermal Shutdown Protection (For DO channel)**

Environment

- **Operating Temperature**   -10 ~ 60°C (mounted vertically)
- **Storage Temperature**   -40 ~ 70°C
- **Relative Humidity**   5 ~ 95% (non-condensing)

Ordering Information

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