# APAX-5060 APAX-5080

# 12-ch Relay Output Module

# 4/8-ch High/Low Speed Counter Module



# **Specifications**

#### General

- Dimensions (W x H x D) 30 x 139 x 100 mm
- Weight
- Power Consumption
- Status Display
- On: Logic level 1 Off: Logic level 0

195 g

#### **Relay Output**

- Channels
- Relay Type
- Form A (SPST)

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 Switching Capacity and Lifetime of the Contact (For Resistive Load) 30,000 operations (5 A @ 250 VAC, **VDF** 10 operations/minute at 8°C) 70,000 operations (5 A @ 30 V<sub>DC</sub>,

20,000,000 operations

500 V<sub>AC</sub> (50/60 Hz)

10 operations/ minute at 85°C)

(no load, 300 operations/min)

60,000 operations (5 A @ 250 VAC) 100,000 operations (5 A @ 30 V<sub>DC</sub>)

UL:

Mechanism.

- Breakdown Voltage
- $30 \text{ m}\Omega$  (maximum) Contact Resistance
- Insulation Resistance

## Protection

 Isolation Between 2,500 V<sub>DC</sub> **Channels and Backplane** 

## **Environment**

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

# **Ordering Information**

- APAX-5060 APAX-5060PE
- 12-ch Relay Output Module
  - 12-ch Relay Output Module with Wide Temperature



**Specifications** 

#### General

- Dimensions (W x H x D) 30 x 139 x 100 mm 170 g
- Weiaht
- **Power Consumption** 2.5 W @ 24 V<sub>DC</sub> (typical) LED per channel (for DI/O only)
- Status Display
  - On: Logic level 1; Off: Logic level 0

32-bit + 1-bit overflow

0.1% for Low Freq. mode

0.1 us ~ 40 ms

mode

8 (Up Counter, High/Low Freq. and Wave Width mode)

4 (Pulse and Direction, Up/Down Pulse, A/B Phase)

1 µs for High Freq. mode; 1 ms for Low Freq. mode

0.1 Hz ~ 10 Hz for Low Freq. mode and Wave Width

10 Hz ~ 1M Hz for High Freq. mode and other modes

For "0" signal:  $0 \sim 3 V_{DC}$ ; For "1" signal:  $10 \sim 30 V_{DC}$ 

#### **Counter/Frequency Input**

- **Channels & Mode**
- **Counting Range**
- Minimum Pulse Width
- **Counter Frequency**
- Input Voltage
- Input Filter

#### **Digital Input**

- Type
- For "O" signal: 0  $\sim$  3 V<sub>DC</sub>; For "1" signal: 10  $\sim$  30 V<sub>DC</sub>

#### **Digital Output**

- Channels
  - 4 (Sink Type) Output Voltage Range
- Normal Output Current 0.5 A (per channel)

#### Protection

- 2,500 V<sub>DC</sub>
- **Channels and Backplane**
- Short Circuit Protection (For DO channel)

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

## **Ordering Information**

APAX-5080 4/8-ch High Speed Counter Module



Accuracy

- Channels
  - Sink (Wet contact)

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- Input Voltage

  - $8 \sim 35 V_{\text{DC}}$

- Isolation Between

Thermal Shutdown Protection (For DO channel)

## Environment

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- **Relative Humidity**

1 G $\Omega$  (minimum) at 500 Vpc

# 2 W @ 24 V<sub>DC</sub> (typical) LED per channel