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 195 g

- Power Consumption 2 W @ 24 V_{DC} (typical) Status Display LED per channel

On: Logic level 1 Off: Logic level 0

Relay Output

Channels

 Relay Type Form A (SPST)

Switching Capacity and Lifetime of the Contact (for resistive load)

UL:

30,000 operations (5 A @ 250 V_{AC}, 10 operations/minute at 8°C) 70,000 operations (5 A @ 30 V_{DC}, 10 operations/ minute at 85°C) 60,000 operations (5 A @ 250 V_{AC}) 100,000 operations (5 A @ 30 V_{DC})

20,000,000 operations Mechanism:

(no load, 300 operations/min)

 Breakdown Voltage 500 V_{AC} (50/60 Hz) $30 \text{ m}\Omega \text{ (maximum)}$ Contact Resistance 1 G Ω (minimum) at Insulation Resistance

500 Vnc

Protection

 Isolation Between 2,500 V_{DC} Channels and Backplane

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-5060 12-ch Relay Output Module



Specifications

General

Dimensions (W x H x D) 30 x 139 x 100 mm

Weight 170 g

Power Consumption 2.5 W @ 24 V_{DC} (typical) Status Display LED per channel (for DI/O only) On: Logic level 1; Off: Logic level 0

Counter/Frequency Input

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

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

Counting Range 32-bit + 1-bit overflow

Minimum Pulse Width 1 µs for High Freq. mode; 1 ms for Low Freq. mode

Counter Frequency 0.1 Hz ~ 10 Hz for Low Freg. mode and Wave Width

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

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

0.1% for Low Freq. mode Accuracy

 Input Filter 0.1 us ~ 40 ms

Digital Input

Channels

Type Sink (wet contact)

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

Digital Output

Channels 4 (sink type) **Output Voltage Range** 8 ~ 35 V_{DC} Normal Output Current 0.5 A (per channel)

Protection

 Isolation Between 2,500 V_{DC}

Channels and Backplane

Short Circuit Protection (For DO channel)

Thermal Shutdown Protection (For DO channel)

Environment

Operating Temperature -10 ~ 60°C (when mounted vertically)

Storage Temperature -40 ~ 70°C

Relative Humidity 5 ~ 95% (non condensing)

Ordering Information

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