# **APAX-5046 APAX-5060 APAX-5080**

## **24-ch Digital Output Module**

### **12-ch Relay Output Module**

### 4-ch High Speed Counter Module







# **Specifications**

#### General

Dimensions 30 x 139 x 100 mm  $(W \times H \times D)$ 

Weight 165 g

Power Consumption 2.5 W @ 24 V<sub>DC</sub> (typical)

 Status Display LED per channel On: Logic level 1 Off: Logic level 0

#### **Digital Output**

Channels 24 (Sink Type) Output Voltage  $8 \sim 35 \, V_{DC}$ Range

 Normal Output 0.5 A (per channel) Current

#### **Protection**

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

Short Circuit Protection

Thermal Shutdown Protection

#### **Environment**

 Operating 0~60°C Temperature

■ Storage Temperature -25 ~ 75° C

 Relative Humidity 5 ~ 95% (non-condensing)

# **Ordering Information**

 APAX-5046 24-ch Digital Output Module

APAX-5001 1-slot Backplane Module

 APAX-5002 2-slot Backplane Module ΔΡΔΥ-5343F Power Supply for APAX Expansion Module

# **Specifications**

#### General

**Dimensions** 30 x 139 x 100 mm  $(W \times H \times D)$ 

Weight 195 g

**Power Consumption** 2 W @ 24 V<sub>DC</sub> (typical)

**Status Display** LED per channel On: Logic level 1 Off: Logic level 0

#### **Relay Output**

**VDF** 

Channels 12

**Relay Type** Form A (SPST)

Switching Capacity and Lifetime of the Contact (For Resistive Load)

> 30,000 operations (5 A @ 250 V<sub>AC</sub>, 10 operations/minute at 8° C) 70,000 operations (5 A @ 30 V<sub>DC</sub>, 10 operations/ minute at 85° C)

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

20,000,000 operations Mechanism:

(no load, 300 operations/min)

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

Contact Resistance 30 m $\Omega$  (maximum) Insulation Resistance 1  $G\Omega$  (minimum) at

500 V<sub>DC</sub>

#### **Protection**

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

### **Environment**

Operating  $0 \sim 60^{\circ} C$ Temperature

Storage Temperature  $-25 \sim 75^{\circ}$  C

Relative Humidity 5 ~ 95% (non-condensing)

# **Ordering Information**

 APAX-5060 12-ch Relay Output Module APAX-5001 1-slot Backplane Module APAX-5002 2-slot Backplane Module APAX-5343E

Power Supply for APAX **Expansion Module** 

# **Specifications**

#### General

Dimensions 30 x 139 x 100 mm (WxHxD)

Weight

Power Consumption 2.5 W @ 24 V<sub>DC</sub> (typical)

LED per channel Status Display (for DI, DO channel) On: Logic level 1

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

Channels 8 (Up Pulse, Freauency)

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

**Counting Range** 32-bit + 1-bit overflow

Minimum Pulse Width 1 µs **Counter Frequency** 1 MHz (max) Input Voltage

For "0" signal: 0 ~ 3 Vnc For "1" signal:  $10 \sim 30 \text{ V}_{DC}$ 

Off: Logic level 0

#### **Digital Input**

Channels

Sink (Wet contact) Tvpe Input Voltage For "O" signal: 0 ~ 3 VDC For "1" signal: 10 ~ 30 V<sub>DC</sub>

#### **Digital Output**

4 (Sink Type) Output Voltage Range 8 ~ 35 V<sub>DC</sub>

Normal Output Current 0.5 A (per channel)

#### **Protection**

**Isolation Between** 2.500 Vpc Channels and Backplane

Short Circuit Protection (For DO channel)

Thermal Shutdown Protection (For DO channel)

#### **Environment**

• Operating Temperature  $0 \sim 60^{\circ} \text{ C}$ 

Storage Temperature  $-25 \sim 75^{\circ} \text{ C}$ 

**Relative Humidity** 5 ~ 95% (non condensing)

# Ordering Information

APAX-5080

4-ch High Speed Counter

Module

APAX-5001 APAX-5002 1-slot Backplane Module 2-slot Backplane Module

**APAX-5343E** 

Power Supply for APAX

Expansion Module