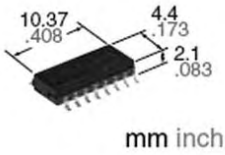




# Relays & Solenoids

## NAIS\_PCB Relays

Detailed product specifications are available on: [us.100y.com.tw](http://us.100y.com.tw)



### TYPICAL APPLICATIONS

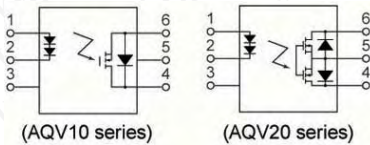
For multi-circuit switching

1. Measuring instruments (probe cards, etc.)
2. Test equipment

IC tester, Liquid crystal driver tester, semiconductor performance tester

3. Board tester
- Bear board tester, In-circuit tester, function tester
4. Medical equipment
- Ultrasonic wave diagnostic machine
5. Multi-point recorder
- Warping, thermo couple

Part No.	Product No.	Manufacturer	Description	Contact Arrangement	Contact Rating	Coil Voltage	Recognized Safety	Type
47169	AQS225R2S	NAIS	High capacity and low on resistance.	4-channel (4 Form A)	4-channel (4 Form A)	80V	UL, C-UL	AQS225R2S



### FEATURES

1. Controls low-level analog signals
- PhotoMOS relays feature extremely low closed-circuit offset voltage to enable control of low-level analog signals without distortion.
2. Control with low-level input signals
3. Controls various types of loads such as relays, motors, lamps and sole-noids.
4. Optical coupling for extremely high isolation
- Unlike mechanical relays, the PhotoMOS relay combines LED and optoelectronic device to transfer signals using light for extremely high isolation.
5. Eliminates the need for a counter electromotive force protection diode in the drive circuits on the input side
6. Stable on resistance

### 7. Low-level off state leakage current

### 8. Eliminates the need for a power supply to drive the power MOSFET

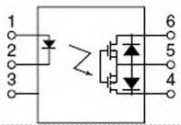
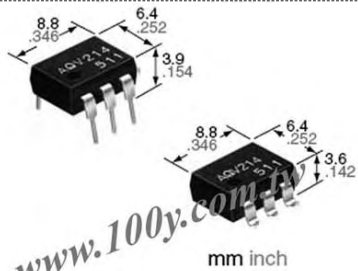
A power supply used to drive the power MOSFET is unnecessary because of the built-in optoelectronic device. This results in easy circuit design and small PC board area.

### 9. Low thermal electromotive force (Approx. 1 μV)

### TYPICAL APPLICATIONS

- High-speed inspection machines
- Telephone equipment
- Data communication equipment
- Computer

Part No.	Product No.	Manufacturer	Description	Contact Arrangement	Contact Rating	Coil Voltage	Recognized Safety	Outline L*W*H	Type
42811	AQV101	NAIS	PhotoMOS relays	[1-Channel (Form A) Type]	Form A	40V	RU, CSA, TUV	8.8*6.4*3.9	AQV
47399	AQV102	NAIS	NAIS_HF PhotoMOS REALY	1 Form A	60V / 600 mA	60V	UL(E43149), C-UL		AQV102
47402	AQV103	NAIS	NAIS_HF PhotoMOS RELAY	1 Form A	250V / 300 mA	250V	UL(E43149), C-UL		AQV103
47403	AQV104	NAIS	NAIS_HF PhotoMOS RELAY	1 Form A	400V / 180 mA	400V	UL(E43149), C-UL		AQV104



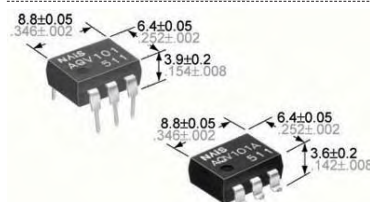
### FEATURES

1. Protects Circuit from excess current
- The short circuit protection function prevents the continued flow of short current. After short current is detected, load current is monitored, and if the load returns to normal, the relay returns to normal operation.
2. No need for fuses, polyswitches, or other protectors
- The built-in short circuit protection function eliminates the need for overcurrent protectors, reducing mounting costs and space requirements.
3. High capacity
- Can control up to 0.5A (60 VDC) load current.

### TYPICAL APPLICATIONS

- Industrial equipment
- Traffic signal control
- Security equipment

Part No.	Product No.	Manufacturer	Description	Contact Rating	Coil Voltage	Recognized Safety	Type
47259	AQV112KL	NAIS	NAIS_GU PhotoMOS Relay	60V / 500mA	60V	UL, C-UL, VDE	AQV112KL



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A power supply used to drive the power MOSFET is unnecessary because of the built-in optoelectronic device. This results in easy circuit design and small PC board area.

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### TYPICAL APPLICATIONS

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Part No.	Product No.	Manufacturer	Description	Contact Arrangement	Contact Rating	Coil Voltage	Recognized Safety	Outline L*W*H	Type
47405	AQV201	NAIS	NAIS_HF PhotoMOS RELAY	1 Form A	40V / 500 mA	40V	UL(E43149), C-UL		AQV201
16848	AQV202	NAIS	PhotoMOS RELAY DIP-6P	1-Channel (Form A)	Form A	60V	RU, CSA, TUV	8.8*6.4*3.9	AQV202
47407	AQV203	NAIS	NAIS_HF PhotoMOS RELAY	1 Form A	250V / 200 mA	250V	UL(E43149), C-UL		AQV203
47408	AQV204	NAIS	NAIS_HF PhotoMOS RELAY	1 Form A	400V / 150 mA	400V	UL(E43149), C-UL		AQV204



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