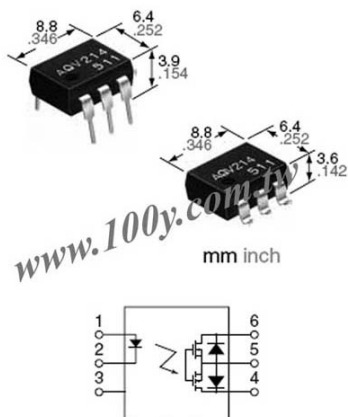




Relays & Solenoids

NAIS_PCB Relays

Detailed product specifications are available on: us.100y.com.tw



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 solenoids.**
- 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)**

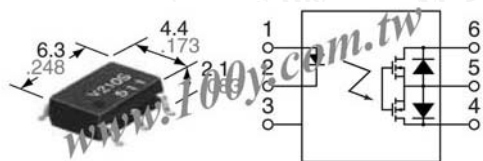
TYPICAL APPLICATIONS

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



(Standard type) (Reinforced type)

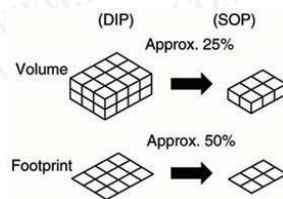
Part No.	Product No.	Manufacturer	Description	Contact Arrangement	Contact Rating	Coil Voltage	Recognized Safety	Outline L*W*H	Type
47195	AQV210	NAIS	Controls low-level input signals. Controls load voltage 60V to 600V.		350V / 130mA	350V	UL(E43149),C-UL		AQV210
47286	AQV210E	NAIS	NAIS PHOTO MOSFET RELAY	1 FROM A	350V / 130mA	350V	UL,CSA ,TUV	8.8*6.4*3.9	AQV210E
37161	AQV210EH	NAIS	NAIS PHOTO MOSFET Relay	1 FROM A		350V	UL,CSA ,TUV	8.8*6.4*3.9	AQV210E
47177	AQV210S	NAIS	NAIS GU PhotoMOS Relays	1 Form A					AQV210S
47191	AQV212	NAIS	Controls low-level input signals. Controls load voltage 60V to 600V.		60V / 550mA	60V	UL(E43149),C-UL		AQV212
47197	AQV214	NAIS	Controls low-level input signals. Controls load voltage 60V to 600V.		400V / 120mA	400V	UL(E43149),C-UL		AQV214
47288	AQV214E	NAIS	NAIS PHOTO MOSFET RELAY	1 FROM A	400V / 120mA	400V	UL,CSA ,TUV	8.8*6.4*3.9	AQV214E
47289	AQV214EH	NAIS	NAIS PHOTO MOSFET RELAY	1 FROM A	400V / 120mA	400V	UL,CSA ,TUV	8.8*6.4*3.9	AQV214EH
47199	AQV214H	NAIS	Controls low-level input signals. Controls load voltage 60V to 600V.		400V / 120mA	400V	UL(E43149),C-UL,BSI, VDE		AQV214H
47198	AQV216	NAIS	Controls low-level input signals. Controls load voltage 60V to 600V.		600V / 50mA	600V	UL(E43149),C-UL		AQV216
47194	AQV217	NAIS	Controls low-level input signals. Controls load voltage 60V to 600V.		200V / 180mA	200V	UL(E43149),C-UL		AQV217
47192	AQV215	NAIS	Controls low-level input signals. Controls load voltage 100V to 320V.		100V / 320mA	100V	UL(E43149),C-UL		AQV215



FEATURES

- 1. 1 channel (Form A) in super miniature design**

The device comes in a super-miniature SO package measuring (W) 4.4 × (L) 6.3 × (H) 2.1 mm (W) .173 × (L) .248 × (H) .083 inch —approx. 25% of the volume and 50% of the footprint size of DIP type PhotoMOS Relays.



2. Tape and reel

The device comes standard in a tape and reel (1,000 pcs./reel) to facilitate automatic insertion machines.

3. Controls low-level analog signals

PhotoMOS relays feature extremely low closed-circuit offset voltage to enable control of low-level analog signals without distortion.

4. Low-level off state leakage current

In contrast to the SSR with an off state leakage current of several milliamperes, the PhotoMOS relay features a very small off state leakage current of typ. 100 pA even at the rated load voltage of 400 V (AQV214S).

TYPICAL APPLICATIONS

- Telephones
- Measuring instruments
- Computer
- Industrial robots
- High-speed inspection machines

Part No.	Product No.	Manufacturer	Description	Contact Arrangement	Contact Rating	Coil Voltage	Recognized Safety	Outline L*W*H	Type
47177	AQV210S	NAIS	NAIS GU PhotoMOS Relays	1 Form A					AQV210S
40149	AQV212S	NAIS	NAIS GU PhotoMOS Relays	1 Form A	60V/0.5A	60V	UL	6.3*4.4*2.1	AQV212S
47175	AQV215S	NAIS	NAIS GU PhotoMOS Relays	1 Form A	100V/300mA	100V	UL,C-UL	(W) 4.4 × (L) 6.3×(H) 2.1 mm	AQV215S
47179	AQV216S	NAIS	NAIS GU PhotoMOS Relays	1 Form A	1 Form A	600V	UL,C-UL	(W) 4.4 × (L) 6.3×(H) 2.1 mm	AQV216S
47176	AQV217S	NAIS	NAIS GU PhotoMOS Relays	1 Form A	200V/160mA	200V	UL,C-UL	(W) 4.4 × (L) 6.3×(H) 2.1 mm	AQV217S



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