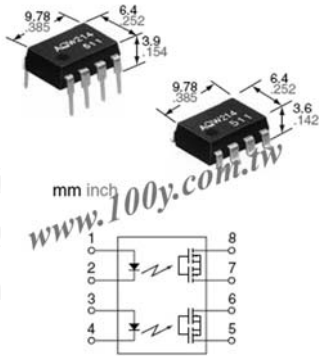




# Relays & Solenoids

## NAIS\_PCB Relays

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



### FEATURES

#### 1. Compact 8-pin DIP size

The device comes in a compact (W) 6.4×(L) 9.78×(H) 3.9 mm (W) .252×(L) .385×(H) .154 inch, 8-pin DIP size (through hole terminal type).

#### 2. Applicable for 1 Form A 1 Form B use as well as two independent 1 Form A and 1 Form B use

#### 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. High sensitivity, low ON resistance

Can control a maximum 0.16 A (AQW654) load current with a 5 mA input current. Low ON resistance of 16 Ω (AQW654). Stable operation because there are no metallic contact parts.

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

The SSR has an off state leakage current of several milliamperes, whereas the PhotoMOS relay has typ. 100 pA even with the rated load voltage of 400 V (AQW654).

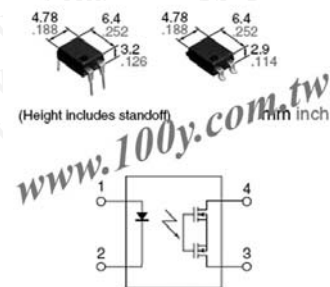
#### 6. Low thermal electromotive force (Approx. 1 μV)

### TYPICAL APPLICATIONS

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



Part No.	Product No.	Manufacturer	Description	Contact Arrangement	Contact Rating	Coil Voltage	Recognized Safety	Outline L*W*H	Type
47396	AQW654	NAIS	NAIS_HE PhotoMOS RELAY	1 Form A/1 Form B	400V 120 mA	400V	UL(E43149),C-UL	(W)6.4×(L) 9.78×(H) 3.9 m	AQW654



### FEATURES

#### 1. Reinforced insulation 5,000 V type

More than 0.4 mm internal insulation distance between inputs and outputs. Con-forms to EN41003, EN60950 (reinforced insulation).

#### 2. Compact 4-pin DIP size

The device comes in a compact (W)6.4×(L)4.78×(H)3.2mm (W).252×(L).188×(H).126inch, 4-pin DIP size.

#### 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. High sensitivity, low ON resistance

Can control a maximum 0.13 A load current with a 5 mA input current. Low ON resistance of 25Ω (AQY210EH). Stable operation because there are no metallic contact parts.

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

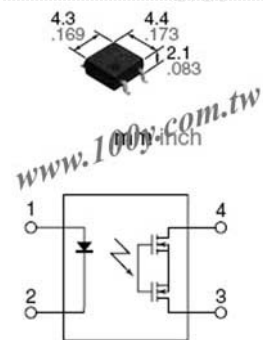
The SSR has an off state leakage current of several milliamperes, whereas the PhotoMOS relay has typ. 100 pA even with the rated load voltage of 350 V (AQY210EH).

### TYPICAL APPLICATIONS

- Modem
- Telephone equipment
- Security equipment
- Sensors



Part No.	Product No.	Manufacturer	Description	Contact Arrangement	Contact Rating	Coil Voltage	Recognized Safety	Outline L*W*H	Type
47264	AQY210EH	NAIS	NAIS_GU-E PhotoMOS Relay	(1 Form A)	350V / 130mA	350V	UL(E43149),BSI,C-UL	(W)6.4×(L)4.78×(H)3.2mm	AQY210EH
47262	AQY211EH	NAIS	NAIS_GU-E PhotoMOS Relay	(1 Form A)	30V / 1000mA	30V	UL,C-UL	(W)6.4×(L)4.78×(H)3.2mm	AQY211EH
47263	AQY212EH	NAIS	NAIS_GU-E PhotoMOS Relay	(1 Form A)	60V / 550mA	60V	UL,C-UL ,BSI	(W)6.4×(L)4.78×(H)3.2mm	AQY212EH
47266	AQY214EH	NAIS	NAIS_GU-E PhotoMOS Relay	(1 Form A)	400V / 120mA	400V	UL(E43149),BSI,C-UL	(W)6.4×(L)4.78×(H)3.2mm	AQY214EH
47267	AQY216EH	NAIS	NAIS_GU-E PhotoMOS Relay	(1 Form A)	600V / 50mA	600V	UL,BSI,C-UL	(W)6.4×(L)4.78×(H)3.2mm	AQY216EH



### FEATURES

#### 1. Short circuit protection (Latch type)

When the output current exceeds a fixed amount, it is cut and the off state is maintained. The relay can be restored by turning off the input current and then turning it back on.

#### 2. SO package 4-Pin type in super miniature design

#### 3. Tape and reel

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

#### 4. Controls low-level analog signals

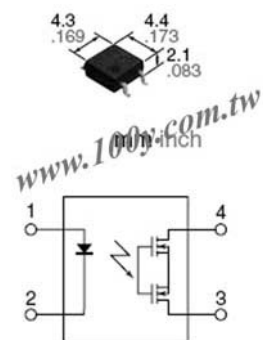
#### 5. Low-level off state leakage current

### TYPICAL APPLICATIONS

- Modem and Telephone equipment
- Measuring and Testing equipment
- Security equipment
- Industrial equipment
- Traffic signal control



Part No.	Product No.	Manufacturer	Description	Contact Rating	Coil Voltage	Recognized Safety	Type
47257	AQY210KS	NAIS	NAIS_Short circuit protection	350V / 120mA	350V	UL,C-UL,BSI	AQY210KS



### FEATURES

#### 1. SO package 4-Pin type in super miniature design

The device comes in a super-miniature SO package 4-Pin type measuring (W)4.3 × (L)4.4 × (H)2.1 mm (W).169 × (L).173 × (H).083 inch —approx.

70% of the volume and 70% of the footprint size of SO package 6-pin type PhotoMOS Relays.

#### 2. Tape and reel

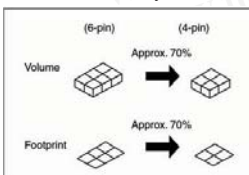
The device comes standard in a tape and reel (1,000 pcs./reel) to facilitate automatic insertion machines.

#### 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 (AQY214S) even with the rated load voltage of 400 V.



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