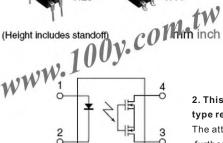
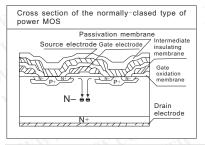


Relays & Solenoids

NAIS PCB Relays







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

1. 60V type couples high capacity (0.55A) with low on-resistance (1 Ω)

Item	GU-E type		
Part No.	AQY410EH	AQY412EH	
Load voltage	350V	60V	
Continuous load current	0.13A	0.55A	
ON resistance (typ.)	18Ω	1Ω	

2. This is the low-cost version PhotoMOS 1 Form B output

The attainment of economical pricing will broaden its market even

3. Normally closed type (1 Form B) is low on-resistance. (All AQO4 PhotoMOS are Form B types. And also the Form A types have a low on-resistance.)

This has been realized thanks to the built-in MOSFET processed by our proprietary method, DSD (Double-diffused and Selective Doping) method. Cross section of the normally-closed type of power MOS

4. Reinforced insulation 5,000 V type

FEATURES

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

5. 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).126 inch, 4-pin DIP size

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

7. High sensitivity, low ON resistance Can control a maximum 0.13 A load current with a 5 mA input current. Low ON resistance of 18Ω (AQY410EH). Stable operation because there are no metallic contact parts.

6. Low-level off-state leakage current

TYPICAL APPLICATIONS

- Power supply
- Measuring equipment
- · Security equipment
- · Telephone equipment
- · Electricity, plant equipment







47303 AQY410EH NAIS NAIS_GU-E PhotoMOS RELAY 1 Form B 350V / 130mA 350V UL(E43149),BSI,C-UL (W)6.4×(L)4.78×(H)3.2mm AQY410EH 47302 AQY412EH NAIS NAIS_GU-E PhotoMOS RELAY 1 Form B 60V / 550mA 60V UL(E43149),BSI,C-UL (W)6.4×(L)4.78×(H)3.2mm AQY412EH 47304 AQY414EH NAIS NAIS_GU-E PhotoMOS RELAY 1 Form B 400V / 120mA 400V UL(E43149),BSI,C-UL (W)6.4×(L)4.78×(H)3.2mm AQY414EH	Part No.	Product No.	Manufacturer	Description	Contact Arrangement	Contact Rating	Coil Voltage	Recognized Safety	Qutline L*W*H	Туре
	47303	AQY410EH	NAIS	NAIS_GU-E PhotoMOS RELAY	1 Form B	350V / 130mA	350V	UL(E43149),BSI,C-UL	(W)6.4×(L)4.78×(H)3.2mm	AQY410EH
47304 AQY414EH NAIS NAIS_GU-E PhotoMOS RELAY 1 Form B 400V / 120mA 400V UL(E43149),BSI,C-UL (W)6.4×(L)4.78×(H)3.2mm AQY414EH	47302	AQY412EH	NAIS	NAIS_GU-E PhotoMOS RELAY	1 Form B	60V / 550mA	60V	UL(E43149),BSI,C-UL	(W)6.4×(L)4.78×(H)3.2mm	AQY412EH
	47304	AQY414EH	NAIS	NAIS_GU-E PhotoMOS RELAY	1 Form B	400V / 120mA	400V	UL(E43149),BSI,C-UL	(W)6.4×(L)4.78×(H)3.2mm	AQY414EH

www.1000.inch

1. 60V type couples high capacity (0.5A) with low on-resistance (1 Ω).

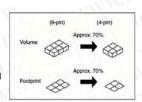
Item	GU SOP type				
Part No.	AQY410S	AQY412S			
Load voltage	350V	60V			
Continuous load current	0.12A	0.5A			
ON resistance (typ.)	18Ω	1Ω			

2. SO package 4-pin type in super miniature design

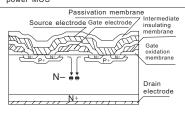
The device comes in a super-miniature SO package 4-pin type measuring (W) 4.3×(L) 4.4×(H) 2.1 mm (W) .169×(L) .173×(H) . 083 inch —approx. 70% of the volume and 70% of the footprint size of SO package 6-pin type PhotoMOS relays.

2. Normally closed type (1 Form B) is low on-resistance. (All AQ O4 PhotoMOS are Form B types. And also the Form A types have a low on-resistance.)

This has been realized thanks to the built-in MOSFET processed by our proprietary method, DSD (Double-diffused and Selective Doping) method.



Cross section of the normally-clased type of power MOS



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

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

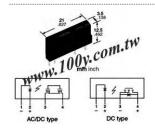
5. Low-level off-state leakage current

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 1nA even with the rated load voltage of 400 V (AQY414S).

TYPICAL APPLICATIONS

- · Power supply
- · Measuring equipment
- · Security equipment
- Telephone equipment

Part No.	Product No.	Manufacturer	Description	Contact Arrangement	Contact Rating	Coil Voltage	Recognized Safety	Туре
47221	AQY410S	NAIS	NAIS_GU PhotoMOS Relay	1 Form B	350V / 120mA	350V	UL,C-UL,BSI	AQY410S
47219	AQY412S	NAIS	NAIS_GU PhotoMOS Relay	1 Form B	60V / 500mA	60V	UL,C-UL,BSI	AQY412S
47222	AQY414S	NAIS	NAIS_GU PhotoMOS Relay	1 Form B	400V / 100mA	400V	UL,C-UL,BSI	AQY414S



- 1. High capacity PhotoMOS Relay in a compact and slim 4-pin SIL
- 2. Extremely low ON resistance
- 3. Control low-level signal

Power Photo MOS 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
- 5. High I/O isolation voltage 2,500 V
- 6. Eliminates the need for a counter electromotive protection diode
- in the drive circuit on the input side

- 7. Eliminate the need for a power supply to drive the power MOSFET
- 8. PC board layout is simplified
- 9. No restriction on mounting direction
- 10. Varistor incorporated type is also available.





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