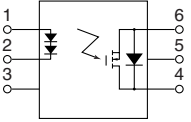
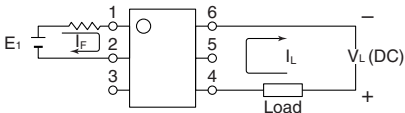
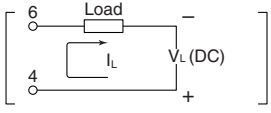
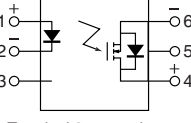
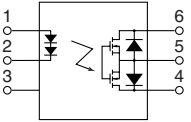
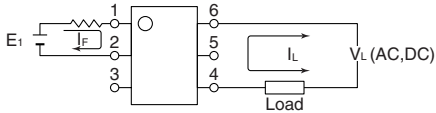
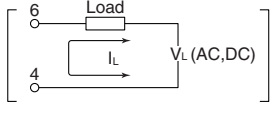
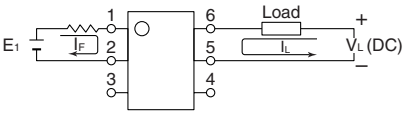
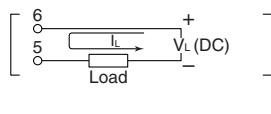
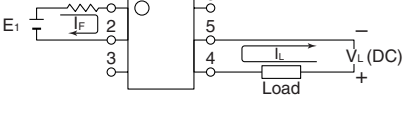
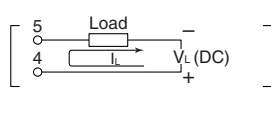
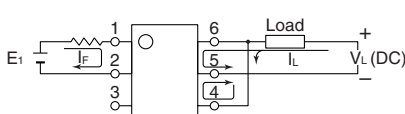
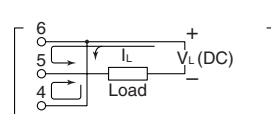


PhotoMOS Relay Schematic and Wiring Diagrams

Type	Schematic	Output configuration	Load	Con- nection	Wiring diagram
AQV10 Series	 Terminal 3 cannot be used, since it is in the internal circuit of the relay.	1a	DC	A	 
AQV11 Series	 Terminal 3 cannot be used, since it is in the internal circuit of the relay.				
AQV20 Series	 Terminal 3 cannot be used, since it is in the internal circuit of the relay.	1a	AC/DC	A	 
			DC	B	    Can be also connected as 2 Form A type. (However, the sum of the continuous load current should not exceed the absolute maximum rating.)
			DC	C	 

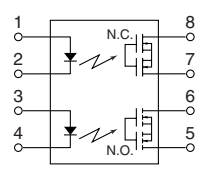
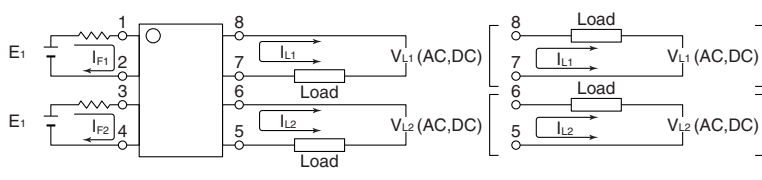
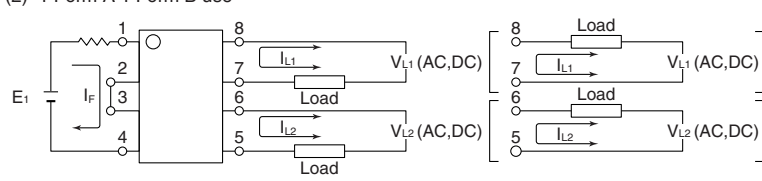
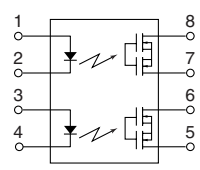
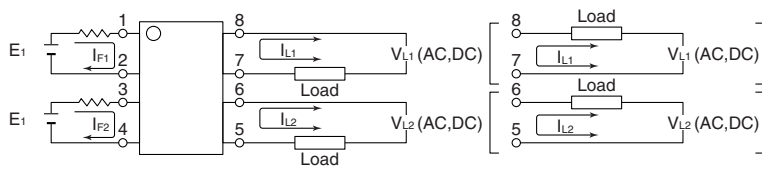
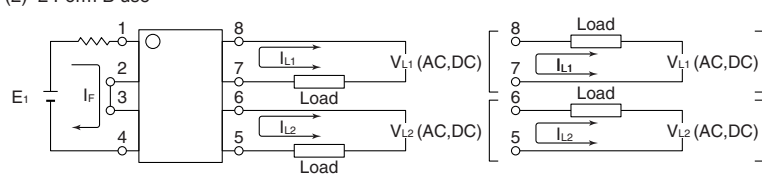
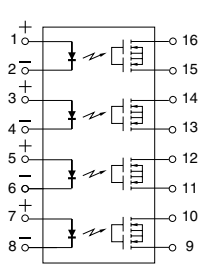
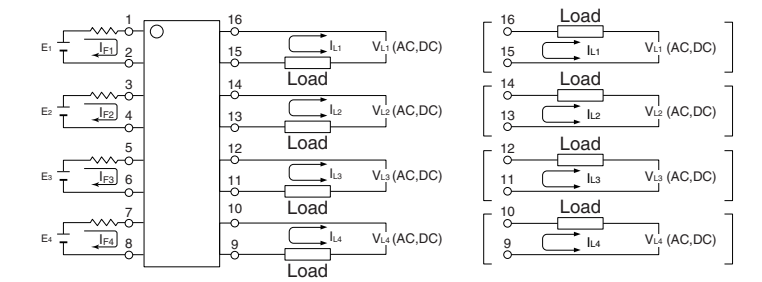
Notes: 1. E_1 : Power source at input side; V_{IN} : Input voltage; I_F : LED forward current; I_{IN} : Input current; V_L : Load voltage; I_L : Load current; R : Current limit resistor.
2. Method of connecting the load at the output is divided into 3 types.

Type	Schematic	Output configuration	Load	Connection	Wiring diagram
AQY21 AQY21(SOP) AQY22 (SOP, SSOP) AQY27 Series		1a	AC/DC	—	
AQV21 AQV21(SOP) AQV22 AQV22(SOP) AQV25(SOP) AQV23 AQV25 Series		1a	AC/DC	A	
			DC	B	Can be also connected as 2 Form A type. (However, the sum of the continuous load current should not exceed the absolute maximum rating.)
			DC	C	

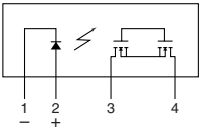
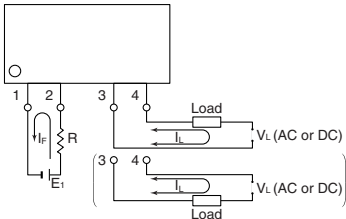
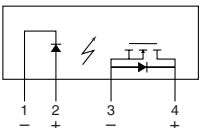
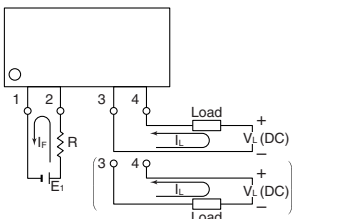
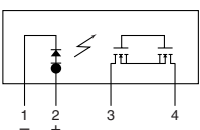
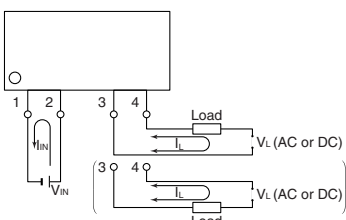
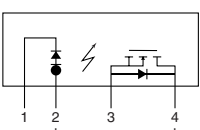
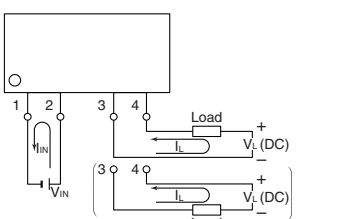
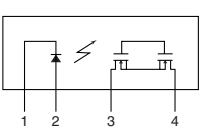
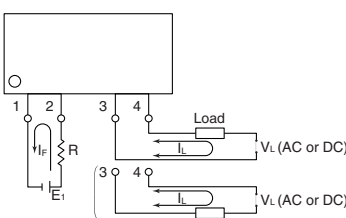
Notes: 1. E_1 : Power source at input side; V_{IN} : Input voltage; I_F : LED forward current; I_{IN} : Input current; V_L : Load voltage; I_L : Load current; R : Current limit resistor.
 2. Method of connecting the load at the output is divided into 3 types.

Type	Schematic	Output configuration	Load	Con- nection	Wiring diagram
AQW21 AQW21(SOP) AQW22 AQW25 AQW27 Series		2a	AC/DC	—	(1) Two independent 1 Form A use (2) 2 Form A use
AQY41 AQY41(SOP) Series		1b	AC/DC	—	
AQV41 AQV41(SOP) AQV45 Series		1b	AC/DC	A	
			DC	B	Can be also connected as 2 Form B type. (However, the sum of the continuous load current should not exceed the absolute maximum rating.)
		DC	C		
Terminal 3 cannot be used, since it is in the internal circuit of the relay.					

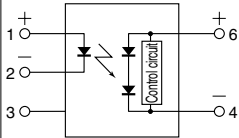
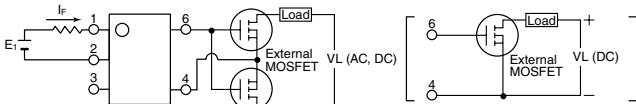
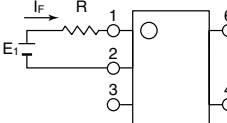
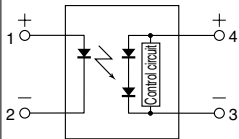
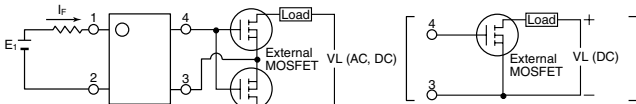
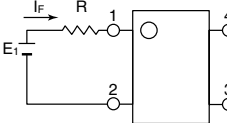
Notes: 1. E_1 : Power source at input side; V_{IN} : Input voltage; I_F : LED forward current; I_{IN} : Input current; V_L : Load voltage; I_L : Load current; R : Current limit resistor.
 2. Method of connecting the load at the output is divided into 3 types.

Type	Schematic	Output configuration	Load	Con- nection	Wiring diagram
AQW61 AQW61(SOP) AQW65 Series		1a1b	AC/DC	—	(1) Two independent 1 Form A & 1 Form B use  (2) 1 Form A 1 Form B use 
AQW41 AQW45 Series		2b	AC/DC	—	(1) Two independent 1 Form B use  (2) 2 Form B use 
AQS22 Series		4a	AC/DC	—	

Notes: 1. E_1 : Power source at input side; V_{IN} : Input voltage; I_F : LED forward current; I_{IN} : Input current; V_L : Load voltage; I_L : Load current; R : Current limit resistor.
2. Method of connecting the load at the output is divided into 3 types.

Type	Schematic	Output configuration	Load	Connection	Wiring diagram
AQZ20 AQZ26 Series		1a	AC/DC	—	
AQZ10 Series		1a	DC	—	
AQZ20○D Series		1a	AC/DC	—	
AQZ10○D Series		1a	DC	—	
AQZ40 Series		1b	AC/DC	—	

Notes: 1. E₁: Power source at input side; V_{IN}: Input voltage; I_F: LED forward current; I_{IN}: Input current; V_L: Load voltage; I_L: Load current; R: Current limit resistor.
2. Method of connecting the load at the output is divided into 3 types.

Type	Schematic	Output configuration	Load	Con- nection	Wiring diagram								
APV1122		1a	AC/DC	—	Power MOSFET drive wiring diagram  Example of each input power supply and current limit resistors ($I_F = 10\text{mA}$)  <table><tr><th>E_1</th><th>R</th></tr><tr><td>5V</td><td>Approx. 380Ω</td></tr><tr><td>15V</td><td>Approx. $1.4\text{k}\Omega$</td></tr><tr><td>24V</td><td>Approx. $2.3\text{k}\Omega$</td></tr></table>	E_1	R	5V	Approx. 380Ω	15V	Approx. $1.4\text{k}\Omega$	24V	Approx. $2.3\text{k}\Omega$
E_1	R												
5V	Approx. 380Ω												
15V	Approx. $1.4\text{k}\Omega$												
24V	Approx. $2.3\text{k}\Omega$												
APV1121S APV2121S APV2111V		1a	DC	—	Power MOSFET drive wiring diagram  Example of each input power supply and current limit resistors ($I_F = 10\text{mA}$)  <table><tr><th>E_1</th><th>R</th></tr><tr><td>5V</td><td>Approx. 380Ω</td></tr><tr><td>15V</td><td>Approx. $1.4\text{k}\Omega$</td></tr><tr><td>24V</td><td>Approx. $2.3\text{k}\Omega$</td></tr></table>	E_1	R	5V	Approx. 380Ω	15V	Approx. $1.4\text{k}\Omega$	24V	Approx. $2.3\text{k}\Omega$
E_1	R												
5V	Approx. 380Ω												
15V	Approx. $1.4\text{k}\Omega$												
24V	Approx. $2.3\text{k}\Omega$												

Notes: 1. E_1 : Power source at input side; V_{IN} : Input voltage; I_F : LED forward current; I_{IN} : Input current; V_L : Load voltage; I_L : Load current; R: Current limit resistor.
2. Method of connecting the load at the output is divided into 3 types.