

- 8KVdc Switching
- 17KVdc coil to contact isolation
- PCB and polyamide bolt mounting
- Connection via 1/4" push on terminals or flying leads
- Fully vacuum (5 ton) encapsulated

Switching Voltage	8KVdc
Switching current	3A
Switching Power	50W
Contact resistance	100mΩ(max) 40mΩ(typ)
Operate/release	1.5ms/1.0ms
Insulation resistance	10 <sup>9</sup> MΩ @1KVdc

REL076

COIL	Vdc	Ω	Order Code	Price Each				
				1+	10+	20+	50+	100+
<b>SPNO - Push On Terminals</b>								
4.5-5.5	50		<b>.910-855</b>					
10.8-13.2	200		<b>.910-867</b>					
21.6-26.4	820		<b>.910-879</b>					
<b>SPNC - Push On Terminals</b>								
21.6-26.4	820		<b>.910-909</b>					
<b>SPNO - Flying Leads</b>								
4.5-5.5	50		<b>910-910</b>					
10.8-13.2	200		<b>910-922</b>					
21.6-26.4	820		<b>910-934</b>					

## Solid State Relays

### General Features

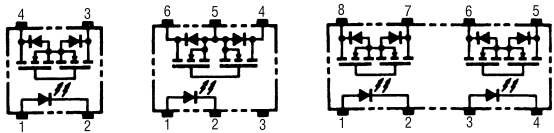
- No contacts to wear or bounce
- No contacts to arc, therefore intrinsically safe
- Higher current handling capacity
- Low power consumption – TTL & MOS circuitry
- No audible noise from contacts or coils
- Minimal electrical and RFI noise
- Higher isolation voltages
- Not effected by vibration

rel117

### Photovoltaic (MOSFET) – G3VM Series



G3VM-2(F) Series G3VM-3(F) Series



TOP VIEW  
Pin Spacing: PCB 2.54 7.62, Surface mount 2.54 8.5

- High load voltage capability – 350V dc/ac @ 10mA load current
- 2.5kV isolation between input and output
- MOSFET design ensures fast switching
- PCB or surface mounted versions available

Load Voltage Range (Vpk)	On-State resistance Ω (max)	Load Current @ 25°C (mA) max	Control Current (ma) norm	Off state Resistance	Order Code
0 to ±350	35	100	10	10 <sup>9</sup>	959-182
0 to ±350	35	200	10	10 <sup>9</sup>	959-194
0 to ±350	35	100	10	10 <sup>9</sup>	959-200
0 to ±350	35	200	10	10 <sup>9</sup>	959-212
0 to ±350	35	100	10	10 <sup>9</sup>	959-224

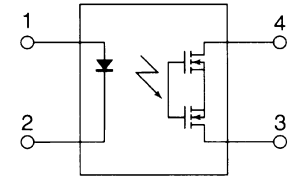
rel211

Load Voltage Range (Vpk)	Mftrs. List No	Order Code	1+	20+	100+	500+
<b>Single Pole, ac or dc Load</b>						
0 to ±350	G3VM-2-S	<b>959-182</b>				
0 to ±350	G3VM-3-S	<b>959-194</b>				
<b>Surface Mount, Single Pole, ac or dc Load</b>						
0 to ±350	G3VM-2F-S	<b>959-200</b>				
0 to ±350	G3VM-3F-S	<b>959-212</b>				
<b>Double Pole, ac or dc Load</b>						
0 to ±350	G3VM-W-S	<b>959-224</b>				

### Photo MOS - AQY Series



Ultra-miniature Sub-miniature  
H = 2.1, W = 4.3, D = 4.4 H = 3.2, W = 4.78, D = 6.4  
(Pin spacing 2.54 x 6.0) (Pin spacing 2.54 x 8.3)



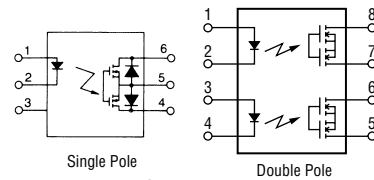
- Available in ultraminiature SO and subminiature DIL packages
- Reinforced barrier gives 5000V rms I/O isolation (EH and EHA types)
- ac or dc switching capability
- Low-level off state leakage current

Load Voltage (pk)	Load Current (ma)	Isolation Voltage (ac)	Mftrs List No	Order Code
<b>Single Pole, N/O - Ultra-miniature - Surface mount</b>				
350V	100	1500	AQY210S	310-5313
<b>Single Pole, N/C - Ultra-miniature - Surface mount</b>				
400V	80	1500	AQY414S	310-5325
<b>Single Pole, N/O - Sub-miniature - Through Hole</b>				
350V	130	5000	AQY210EH	310-5337
<b>Single Pole, N/C - Sub-miniature - Through Hole</b>				
400V	120	5000	AQY414EH	310-5349
<b>Single Pole, N/O - Sub-miniature - Surface mount</b>				
350V	130	5000	AQY210EHA	310-5350

REL255

Load Voltage Range	Order Code	1+	25+	50+	100+	500+
<b>Single Pole, N/O - Ultra-miniature - Surface mount</b>						
0 to ± 350	<b>310-5313</b>					
<b>Single Pole, N/C - Ultra-miniature - Surface mount</b>						
0 to ± 400	<b>310-5325</b>					
<b>Single Pole, N/O - Sub-miniature - Through Hole</b>						
0 to ± 350	<b>310-5337</b>					
<b>Single Pole, N/C - Sub-miniature - Through Hole</b>						
0 to ± 400	<b>310-5349</b>					
<b>Single Pole, N/O - Sub-miniature - Surface mount</b>						
0 to ± 350	<b>310-5350</b>					

### PhotoMOS – AQV/AQW21/25 Series



- Reinforced barrier gives 5000V rms I/O isolation
- High sensitivity / low power consumption
- ac or dc switching capability
- Standard 6 and 8 pin IC and SO packages
- LED version gives clear operation visibility
- UL and CSA approvals. Conforms to **BS60950 (7002)** and **BS415**

The photoMOS relay provides solid state switching for low level signals, utilising MOS-FET technology for the output stage.

LED operate current	0.9mA (typ), 3mA (max)		
Turn on/turn off time	0.8ms (typ), 2ms (max)		
Load Voltage (pk)	Load Current (mA) max.	Mftrs. List No.	Order Code
250V	200	AQV253H	625-851
350V	120	AQV210EH	180-117
400V	150	AQV254H	625-863
350V	120	AQV210S	180-129
350V	120	AQW210EH	180-130
350V	120	AQW210S	180-142
400V	150	AQV254R	310-5672

rel191

Load Voltage Range	Order Code	1+	25+	50+	100+	500+
<b>Single Pole, ac or dc load</b>						
0 to ± 250V	<b>625-851</b>					
0 to ± 350V	<b>180-117</b>					
0 to ± 400V	<b>625-863</b>					
<b>Surface Mount, Single Pole, ac or dc load</b>						
0 to ± 350V	<b>180-129</b>					
<b>Double Pole, ac or dc load</b>						
0 to ± 350V	<b>180-130</b>					
<b>Surface Mount, Double Pole, ac or dc load</b>						
0 to ± 350V	<b>180-142</b>					
<b>Single Pole, ac or dc load, LED Indication</b>						
0 to ± 400V	<b>310-5672</b>					

continued