Solid State Relays
WG A8 6 05 / 10 - LC

Features	
Power Control	Phase angle with linearisation by microprocessor
Output	Triac
Input	DC control , optically isolated
Applications	Linear lux control for lighting
	Linear power control for heaters

Technical data

	WG A8 6 05-LC	WG A8 6 10-LC
Input circuit		
Supply voltage range	5...24VDC	
Supply current max.	20mA	
Control current max.	1mA	
Control voltage (page 2 power control)	0 ... 5V	0...10V
Resolution	64 steps (78 mV for 5V—156 mV for 10 V)	
Input resistance	10KΩ	
Output circuit		
Load voltage range	140...280 VAC	
Peak-off-state voltage	600 V_{drm}	
Off-state leakage current	8 mA eff.	
Load current range	0,1...5 A	
Surge current 1 half wave	100 A_{peak}	
I^2t for fusing	50 A^2s	
On-state voltage	1,6 V_{peak}	
Off-state (static) dv/dt	500 V/µs	
Snubber	———	
General data		
Turn-on time max.	Phase angle control	
Turn-off time max.	11 ms	
Line frequency range	47...53 Hz	
Isolation volt. between input/output	4.000 V	
Isolation volt. between input-output/ base	2.500 V	
Isolation resistance	50 MΩ	
Operating temperature	-20...+80 °C	
Recommended varistor	SIOV-S14 K230	

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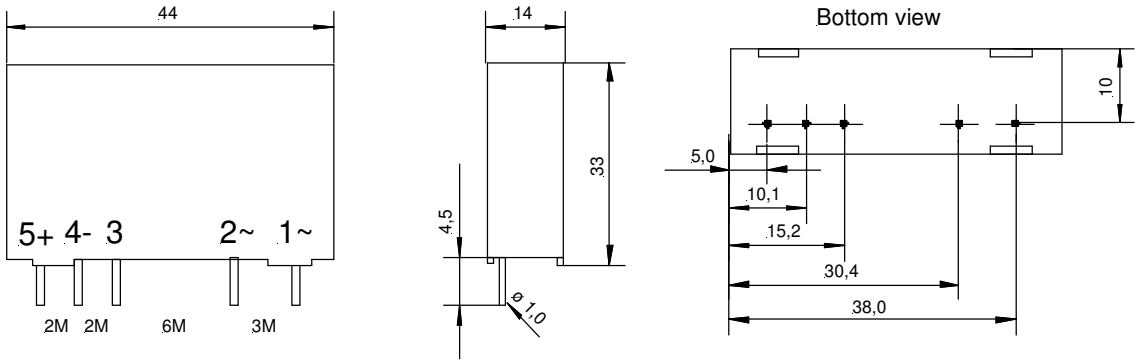
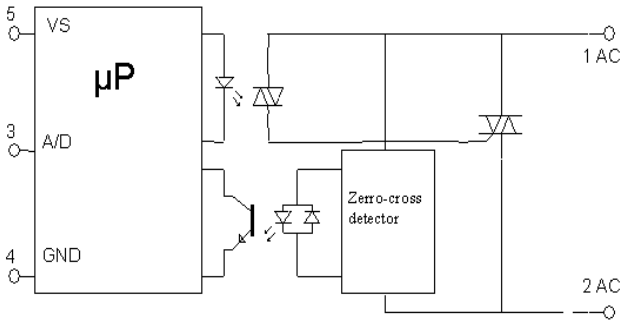
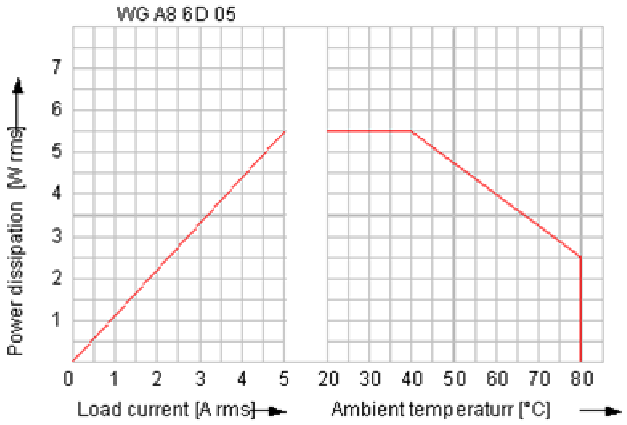
Dimensions in mm

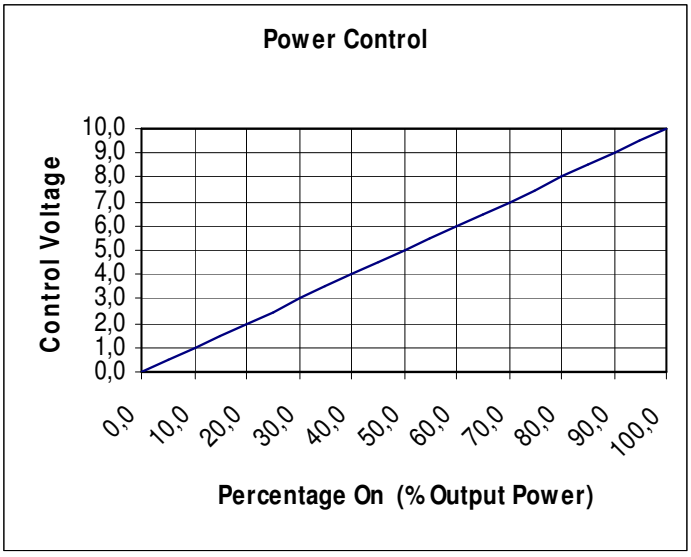


Circuit diagram and derating diagram





Linear power control



Housing specifications

Weight	Approx. 20 g
Housing material	Glass filled polyester
Potting compound	Thermally conductive epoxy
Terminals	Solder pins

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