### bistable (latching) power relay





- Up to 90A /240VAC continuous rating
- 30V maximum DC switching voltage
- Single Coil & Twin Coil Latching
- Utility meters, power conditioning
- Automotive / Electric Vehicle Battery
- Highly customisable power terminals

#### Contacts

Contacts			
Contact number & arrangement	SPST-NO (1 Normally Open)		
Contact material	AgSnO <sub>2</sub>		
Max. switching voltage	250VAC / 30VDC		
Min. switching current / voltage	500mA/12VDC		
Max. continuous current	90A		
Max. switching current	90A		
Max. switching power	22500VA		
Short circuit current	2700A for 10mS (IEC62055-31)		
Initial resistance	≤ 100mΩ, max. at 0.1A/6VDC		
Coil			
Rated voltage	548VDC		
Operating range of supply voltage	See coil table 1		
Rated power consumption Single coil	1.5W		
Twin coil	3W		
Insulation			
Insulation resistance	>1000MΩ at 500VDC, 50%RH		
Dielectric strength			
coil to contact	4000Vrms, 1min (50Hz)		
between open contacts	3500Vrms, 1min (50Hz)		
Creepage & Clearance	8mm		
General Data			
Operating time mS	≤ 20		
Release time mS	≤ 20		
Electrical Life ops	1 x 10 <sup>4</sup>		
Mechanical life ops	1 x 10 <sup>6</sup>		
Dimensions L x W x H	38 x 17 x 30mm (see drawings for detail)		
Weight	≤ 55g (varies according to options)		
Ambient temperature storage	-40 to 70°C		
operating	-40 to 70°C (Class F)		
Shock resistance	Functional: 98m/s <sup>2</sup> 11mS; Destructive: 980m/s <sup>2</sup>		
Vibration resistance	10-55Hz: DA 1.5mm		
Humidity	98%RH, 40°C		



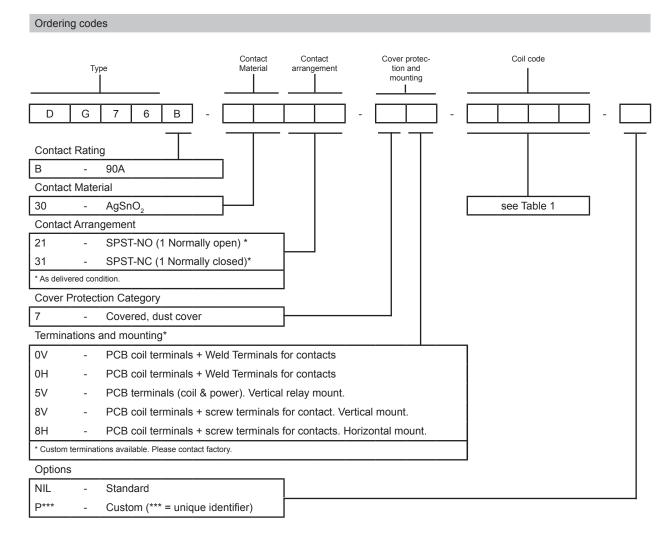
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Coil Data Table 1

DC Coil

Coil Volta	age Code	Naminal Valtage	Coil Resistance (Ω) ±10%		Must operate	Operate pulse
Single Coil	Twin Coil*	Nominal Voltage (VDC)	Single Coil (1.5W)	Twin Coil* (3W)	Must operate voltage (VDC)	Operate pulse length
SL05	TL05	5	16	8.0 + 8.0	≥ 3.5	- ≥ 50ms
SL06	TL06	6	24	12.0 + 12.0	≥ 4.2	
SL09	TL09	9	54	27.0 + 27.0	≥ 6.3	
SL12	TL12	12	96	48.0 + 48.0	≥ 8.4	
SL24	TL24	24	384	192 + 192	≥ 16.8	
SL48	TL48	48	1536	768 + 768	≥ 33.6	
* NB: Latch & Reset coils must not be powered simultaneously.						

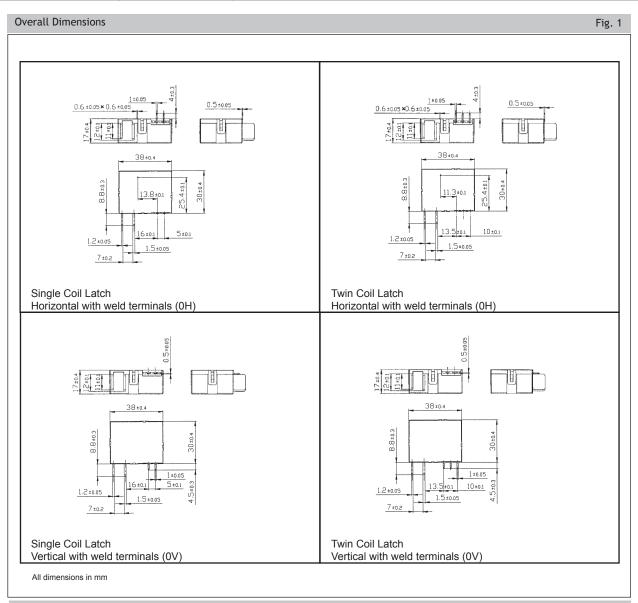


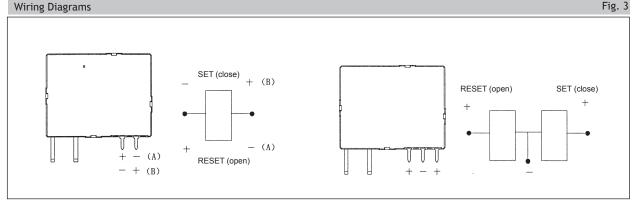
The DG76B terminals are highly customisable. Some examples can be seen on Pages 3 & 4 Please contact factory for additional information. (MOQ's may apply)



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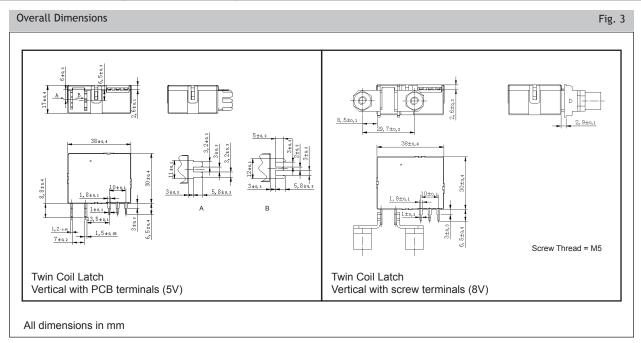
Notes

1) All parameters, unless otherwise specified, are measured at an ambient temperature of 23°C.

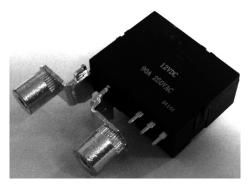


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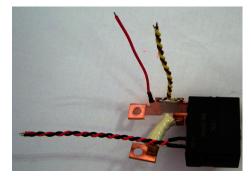
#### Examples of custom terminations:



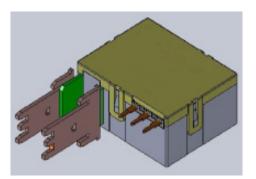
DG76B with screw thread terminations



DG76B with welded copper braid terminations for power and horizontal PCB terminals for coil.



DG76B with current shunt and welded copper braid termination.



DG76B with extended power terminals for PCB mounting or 9.5mm QC push on connectors

