



- Ultra miniature - only 24.2 x 13.2 x 10.3 mm
- Optimised for DC switching up to 30A
- Two separate DG20 relays in one package
- Cost effective

ROHS
Compliant ✓

Contacts				
Contact arrangement	2x SPST-NO (2x1 Form A), 2x SPDT (2x1 Form C)			
Contact material	AgSnOInO, AgNi0.15			
Max. switching voltage	DC	16V	2 x SPDT	
			2 x SPST-NO	
			NO	NC
Max. continuous current	DC	30A @12VDC	30A @ 12VDC	25A @ 12VDC
Max switching current ² (AgSnOInO)	make	50A	50A	25A
	break	30A	30A	25A
Min. switching current / voltage	AgNi0.15: 0.1A, 12VDC / AgSnOInO: 0.5A, 12VDC			
Initial contact resistance	≤100mΩ, max. at 0.1A, 6VDC			

Coil	
Rated voltage	DC 6V, 10V, 12V
Must release voltage	≥0.1 (≥0.125 6VDC coil)
Operating range	See Table 1
Rated power consumption	DC 0.55W - see coil table 1

Insulation	
Insulation resistance	100MΩ at 500VDC, 50%RH
Dielectric strength	coil to contact 500Vrms, 1min

General Data	
Operating time	typ. 3ms
Release time	typ. 1.5ms
Electrical Life ³	ops. 1 x 10 ⁵
Mechanical life	ops. 1 x 10 ⁷

Environmental		
Ambient temperature	operating	-40 to +105°C
	storage	-40 to +155°C
Shock resistance	30g, 6ms	
Dimensions	L x W x H	24.2 x 13.2 x 10.3mm
Weight	approx.	8g
Packing	Plastic tray, 100 relays per tray.	

Ordering Code

D G 2 7 - 8 0 1 2 - 2 5 - 1 0 1 0

Series

Contact material

70: AgSnOInO

80: AgNi0.15

Contact arrangement

11: 2x SPDT (2x C/O, 2x1 Form C)

12: 2x SPST-NO (2x1 N/O, 2x1 Form A)

Environmental protection

2: Flux free

3: Fully sealed to IP67⁴

Mounting & terminations

5: PCB Mounting

Coil code:

See table 1

Coil Data

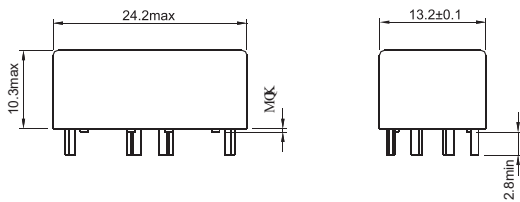
Table 1

Coil code	Nominal voltage (VDC)	Coil Resistance (Ω) ±10%	Must operate voltage max. (VDC)	Must operate voltage min. (VDC)	Max allowable Overdrive * VDC (23°C)
1006	6	64	3.5	0.60	12.0
1010	10	181	5.7	1.00	20.0
1012	12	254	6.9	1.20	24.0

* Above 85°C, maximum allowable voltage should be reduced to 72%

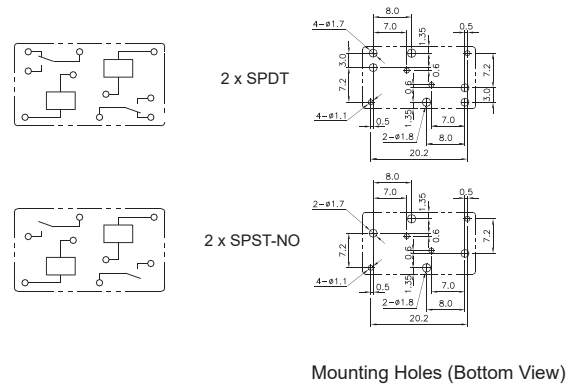
Overall Dimensions mm

Fig. 1



PCB Mounting Dimensions and Wiring mm

Fig. 2



Wiring Diagrams (Bottom View)

Notes:

- 1: All parameters, unless otherwise specified, are measured at ambient temperature of 23°C.
- 2: Maximum make current refers to inrush current of lamp load.
- 3: Electrical life obtained at resistive load at 20A, 13.5VDC on NO contacts, 6 ops/min.
- 4: For maximum electrical life, please remove the knock off nib of the sealed version.