

# DG81C

sub miniature automotive power relay

# DURAKOOL



- Sub miniature - only 15.7 x 12.3 x 13.8mm
- Up to 2 x 35A SPST-NO-DM
- For indicators, hazard warning & ABS
- Cost effective
- RoHS Compliant

## Contacts

Contact number & arrangement	SPST-NO-DM (1 Form U)	
Contact material	AgNi0.15; AgSnOInO; AgCdO	
Max. switching voltage	DC	16VDC (consult factory for 24VDC)
Min. switching current / voltage	1mA/5VDC (AgNi0.15), 0.5A/12VDC (AgSnOInO)	
Rated load	DC1	2 x 30A
Max. continuous current	DC1	2 x 30A (2 mins)
Max. switching current	Make	2 x 35A (Lamp load inrush)
	Break	2x 12.5A
Initial resistance	100mΩ, max. at 0.1A/6VDC	
Coil		
Rated voltage	DC	6...12V
Must release voltage	See coil table 1	
Operating range of supply voltage	See coil table 1	
Rated power consumption	DC	0.85W
Insulation		
Insulation resistance	100MΩ at 500VDC, 50%RH	
Dielectric strength		
	coil to contact	500Vrms, 1min
	contact to contact	500Vrms, 1min
General Data		
Operating time (typical)	mS	10
Release time (typical)	mS	5
Electrical Life	ops	1 x 10 <sup>5</sup>
Mechanical life	ops	1 x 10 <sup>7</sup>
Dimensions	L x W x H	15.7 x 12.3 x 13.8mm
Weight	6g approx.	
Ambient temperature	storage	-40 to 100°C
	operating	-40 to 85°C
Shock resistance	Functional: 10g 11mS; Destructive: 100g	
Vibration resistance	DA 1.5mm 10-55Hz	

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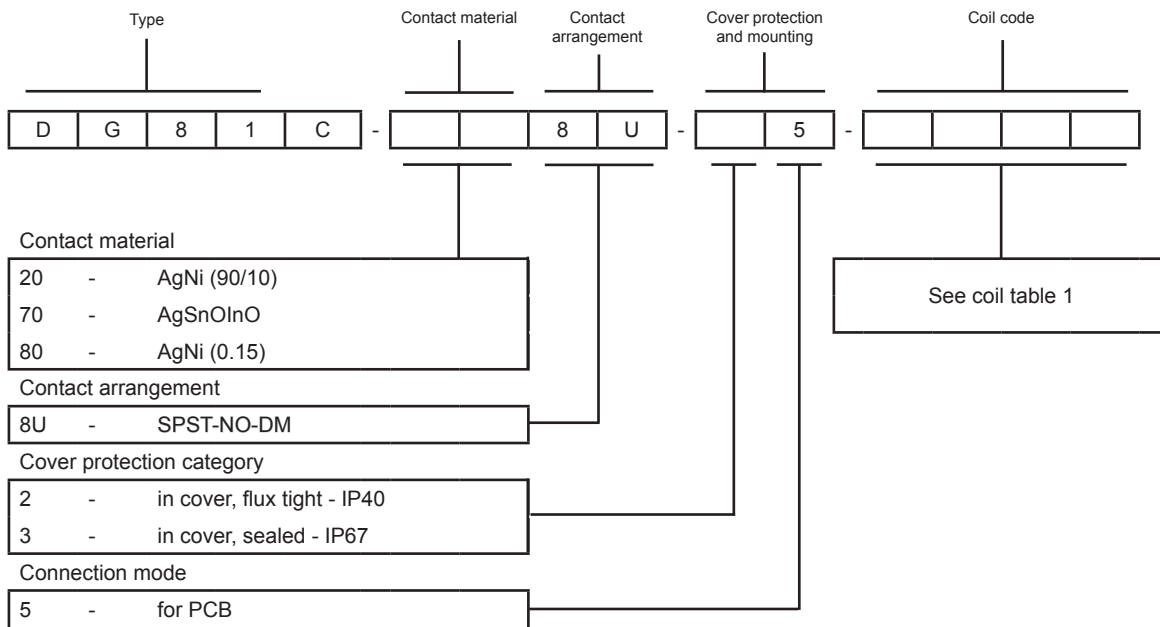


## Coil Data

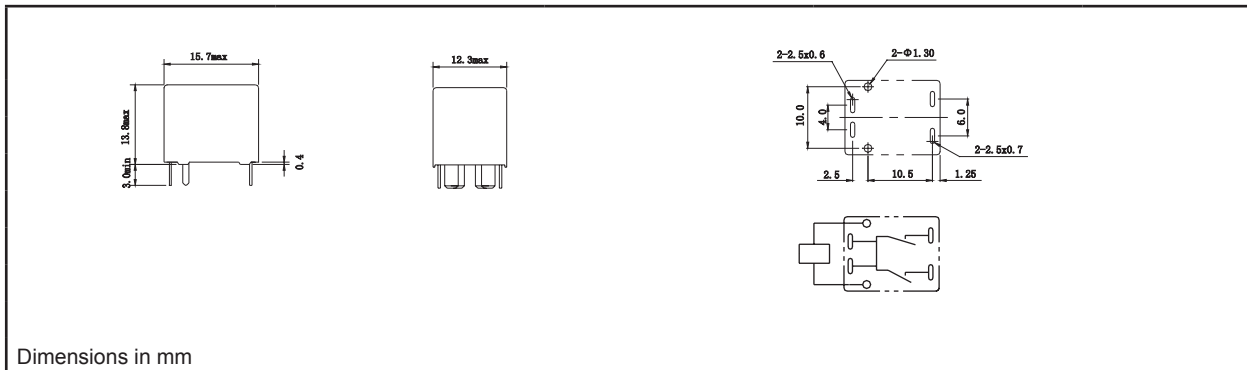
Table 1

Coil Voltage Code	Nominal Voltage (VDC)	Coil Resistance ( $\Omega$ ) $\pm 10\%$	Must operate voltage max. (VDC)	Must release voltage min. (VDC)
1006	6	42	3.5	0.5
1009	9	94	5.2	0.7
1010	10	117	6.3	0.8
1012	12	167	7.3	1.0

## Ordering codes



## Overall Dimensions, PCB Mounting Holes & Wiring Diagram



### Notes:

- 1) All parameters, unless otherwise specified, are measured at an ambient temperature of 23°C.
- 2) Maximum make current refers to inrush current of lamp load.
- 3) Electrical life obtained at lamp load, at resistive load 2 x 6A, 14VDC with 1ms ON, 14ms OFF.
- 4) Electrical life is strongly dependent of switching frequency, ON/Off ratio, environmental conditions and load type.

Specifications are subject to change without notice. E&OE.

