



- Up to 20A / 250VAC Continuous rating
- Single coil & twin coil latching
- Utility meters
- Solar / Energy Conservation
- Just 29 x 12.7 x 15.7mm



Contacts

Contact arrangement	SPST-NO (or SPST-NC) as delivered
Contact material	AgSnO ₂
Max. switching voltage	AC/DC 277VAC / 20VDC
Min. switching current / voltage	500mA/12VDC
Max. continuous current	20A/250VAC
Max. switching power	5000VA (20K ops)
Initial resistance	20mΩ max. at 0.1A/6VDC

Coil

Rated voltage	DC	9...24VDC
Operating range of supply voltage		See table 1
Rated power consumption	single coil	0.5W
	twin coil	1.0W

Insulation (EN 60664-1)

Insulation resistance		>1000MΩ at 500VDC, 50%RH
Dielectric strength	coil to contact	4000Vrms, 1min (50Hz)
	between open contacts	1000Vrms, 1min (50Hz)
Creepage & Clearance		8mm

General Data

Operating time	max.	15ms
Release time	max.	15ms
Electrical life (resistive)	ops.	1 x 10 ⁵ (16A/250VAC), 2 x 10 ⁴ (20A/250VAC)
Mechanical life	ops.	1 x 10 ⁶

Environmental

Ambient temperature	operating	-40 to 70°C (Class F)
	storage	-40 to 70°C
Humidity		5%~98%RH, 40°C
Shock resistance	functional	98m/s ²
	destructive	980m/s ²
Vibration resistance		DA 1.5mm 10-55Hz
Dimensions	L x W x H	29 x 12.7 x 15.7mm
Weight	approx.	≤ 15g

Ordering Code

D G 7 1 L - 3 0 2 1 - 3 5 - T L 1 2 -

Series

Contact terminal pitch

N: 3.5mm (standard)

L: 5.0mm

(see fig. 1)

Contact material

30: AgSnO₂

Contact arrangement

21: SPST-NO (1NO 1 Form A)*

31: SPST-NC (1NC 1 Form B)*

* As delivered condition

Environmental protection

2: In cover, dust protected - IP60

3: In cover, epoxy sealed - IP67

Mounting & terminations

5: For PCB

Options

Blank: Standard

P*** : Custom (***) = unique identifier

Coil code:

See tables

DC Coil Data

Table 1

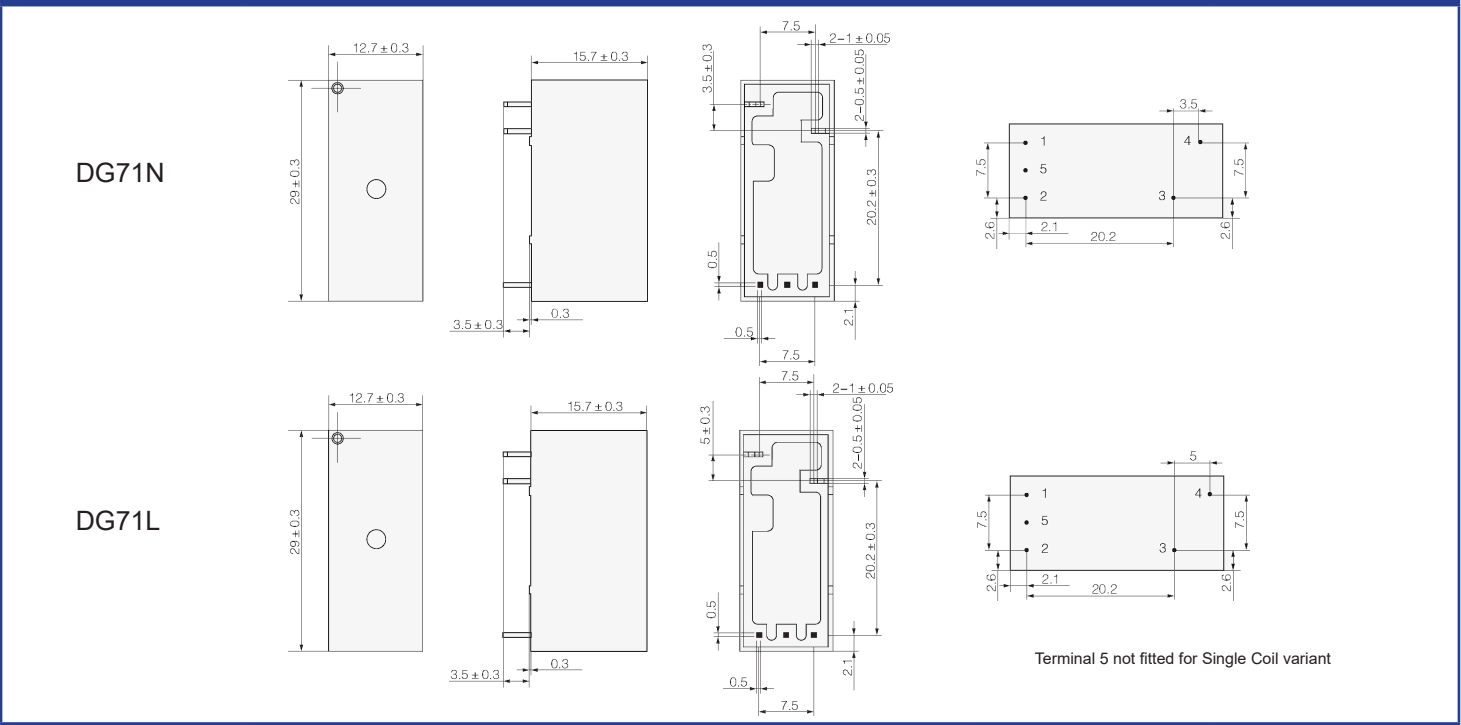
Coil voltage code		Nominal voltage (VDC)	Coil resistance (Ω) $\pm 10\%$		Must operate voltage (VDC)	Recommended operate pulse length
Single coil	Twin coil*		Single coil (0.5W)	Twin coil* (1.0W)		
SL05	TL05	5	50	25 + 25	3.75	50ms
SL06	TL06	6	72	36 + 36	4.5	
SL09	TL09	9	162	81 + 81	≥ 6.75	
SL12	TL12	12	288	144 + 144	≥ 9	
SL24	TL24	24	1152	576 + 576	≥ 18	

Other coils available to special order

* NB: Latch & reset coils must not be powered simultaneously.

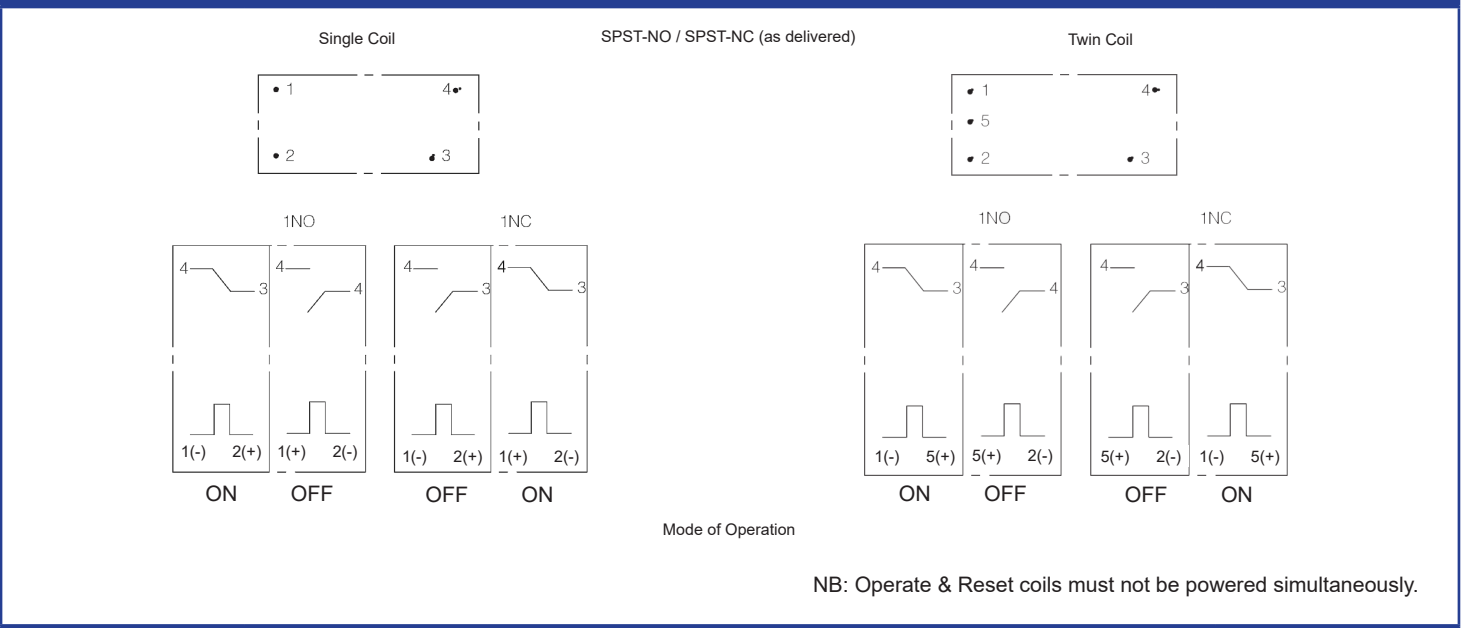
Overall Dimensions mm

Fig. 1



Wiring Diagrams

Fig. 2



Notes:

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