



- Up to 16A / 250VAC Continuous rating
- Single coil & twin coil latching
- Utility meters
- Solar / Energy conservation

ROHS
Compliant ✓

Contacts

Contact arrangement	SPST-NO (1 N/O)
Contact material	AgSnO ₂
Max. switching voltage	AC/DC 250VAC / 20VDC
Min. switching current / voltage	500mA/12VDC
Max. continuous current	16A/250VAC
Max. switching current	16A
Initial resistance	≤ 10mΩ, max. at 0.1A/6VDC

Coil

Rated voltage	DC	9...48V
Operating range of supply voltage		See table 1
Rated power consumption	single coil	1.0W
	twin coil	2.0W

Insulation (EN 60664-1)

Insulation resistance		>500MΩ 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	ops.	1 x 10 ⁴ (at rated current/voltage)
Mechanical life	ops.	1 x 10 ⁶

Environmental

Ambient temperature	operating	-40 to 70°C (Class F)
	storage	-40 to 70°C
Humidity		98%RH, 40°C
Shock resistance	functional	100m/s ² 11ms (10g)
	destructive	1000m/s ² (100g)
Vibration resistance		DA 1.5mm 10-55Hz
Dimensions	L x W x H	30.2 x 13.6 x 22.8mm
Weight	approx.	≤ 13.5g

Ordering Code

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

Series

Coil code:

See table 1

Contact material

30: AgSnO₂

Contact arrangement

21: SPST1(-NO) *

31: SPST-NC (1NC) *

* As delivered condition

Environmental protection

2: In cover, base sealed only

3: In cover, sealed - IP67

Mounting & terminations *

5: For PCB

Options

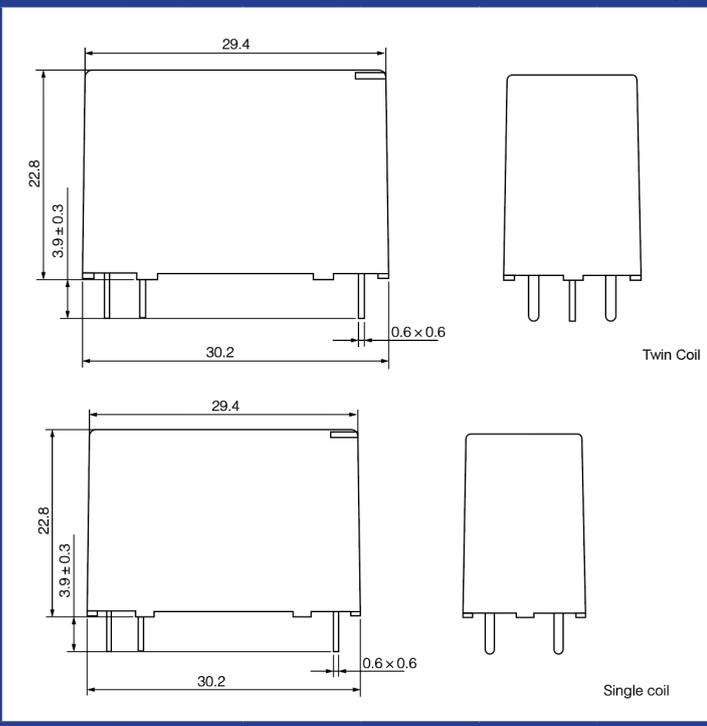
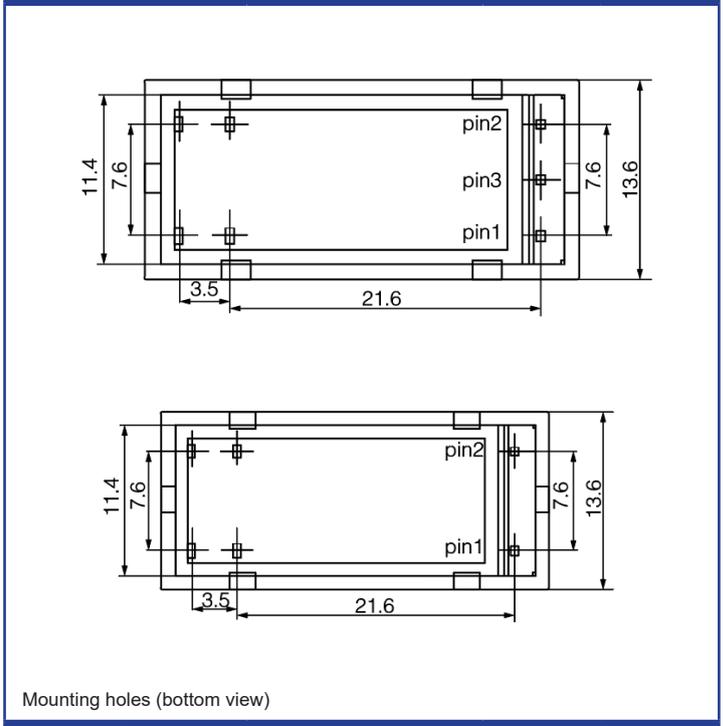
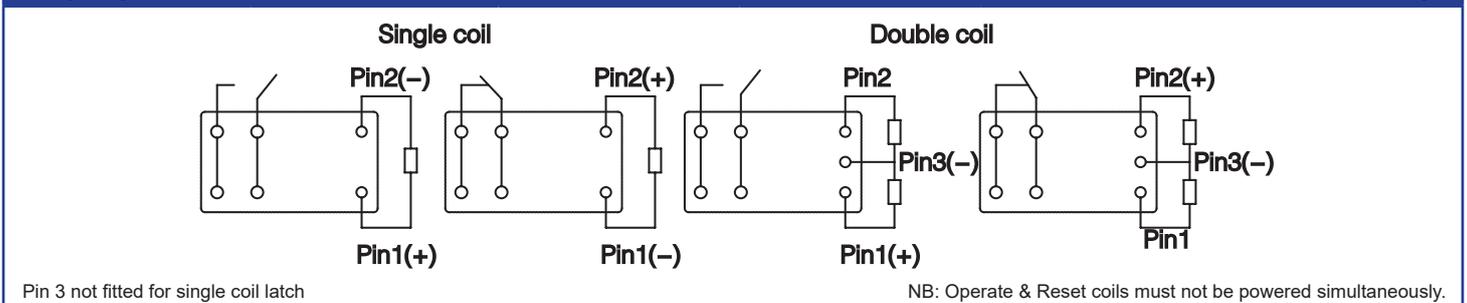
Blank: Standard

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

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 (1.0W)	Twin coil* (2.0W)		
SL09	TL09	9	81	40.5 + 40.5	≥ 6.75	50ms
SL12	TL12	12	144	72 + 72	≥ 9	
SL24	TL24	24	576	288 + 288	≥ 18	
SL48	TL48	48	2304	1152 + 1152	≥ 36	

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

Dimensions mm (PCB Mounting)
Fig. 1

PCB Mounting Dimensions mm
Fig. 2

Wiring Diagram (bottom view)
Fig. 3

Notes:

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