



- Industry standard ISO 280 relay
- Up to 25A 12VDC inrush capability
- 2.8mm QC Terminals
- -40°C to 100°C
- RoHS & ELV Compliant
- Complies with EN IEC 61810

RoHS
Compliant ✓

Contacts

Contact arrangement	SPST-NO (1 Form A)	
Contact material	AgSnO ₂	
Rated current	DC1	25A, 14VDC
Max. switching voltage	16VDC	
Max. breaking capacity	350W	
Max. switching current	25A	
Initial contact resistance	100mΩ (1A 6VDC)	
Min. switched load	recommended	100mA / 12VDC
Max. operating frequency	rated load	360 cycles/hour

Coil

Operating range	DC	See table 1
Rated power consumption	W	1.09 (with resistor)
Operate / Release time	ms	≤ 10

Insulation

Coil insulaton system	IEC 31, CLASS F 155°C	
	Insulation resistance	>100 MΩ at 500VDC, 50%RH
Dielectric strength	coil to contact	500V _{rms} (50/60Hz, 1min, <1mA leakage)
	open contacts	500V _{rms} (50/60Hz, 1min, <1mA leakage)

General Data

Electrical life at full rated load	cycles	> 1 x 10 ⁵
Mechanical life	cycles	> 1 x 10 ⁶

Environmental

Environmental protection	IP67	
Ambient temperature	-40 to +85°C (100°C consult factory)	
Relative humidity	5 to 85% (IEC 61810-7 Item 4.16)	
Mechanical shock	98m/s ² , 11ms	
Vibration resistance	10-55Hz: DA1.5mm (IEC 61810-7 Item 4.28)	
Terminal strength	8N	
Dimensions	L x W x H	15.5 x 15 x 16.4 (excluding terminals)
Weight	approx.	10g

Ordering Code

D G 9 3 - 3 0 2 1 - 3 6 - 1 0 1 2 - R

Series

Coil code:

See table 1

Contact material

30: AgSnO₂

Contact arrangement

21: SPST-NO (1 Form A)

Mounting & terminations

36: Plug-in, 2.8mm QC

R: Parallel resistor (fitted as standard)

DC Coil Data

Table 1

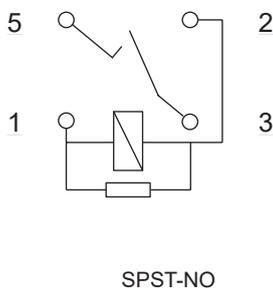
Coil code	Nominal voltage (VDC)	Must operate voltage Max. (VDC@ 23°C)	Max. allowable voltage (VDC)	Must release voltage min. (VDC)	Coil resistance $\Omega \pm 10\%$ (at 23°C)	Coil power consumption (W)
1012	12	7.8	15.6	1.0	132 (with resistor)	1.09

Circuit Diagram

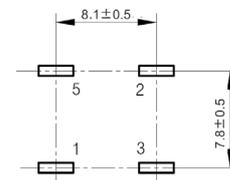
Fig 1 Mounting

Fig 2

Bottom view

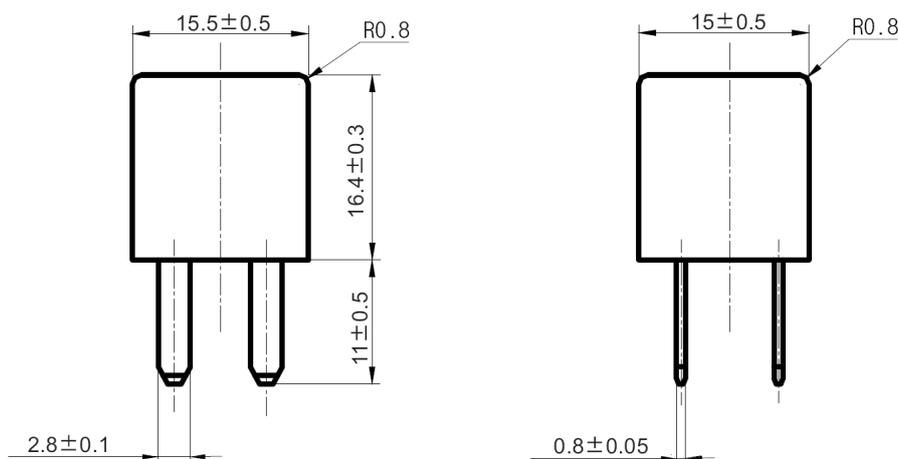


Bottom view



Dimensions

Fig 3



Dimensions mm