

- Industry standard ISO 280 micro-relay
- Up to 40A 12VDC inrush capability
- 2.8mm QC Terminals
- -40°C to 125°C
- RoHS & ELV Compliant
- Complies with EN IEC 61810

RoHS
Compliant ✓

Contacts

Contact arrangement	SPST-NO (1 Form A); SPDT (1 Form C)	
Contact material	AgSnO ₂	
Rated current	DC1	SPST: 35A, SPDT: 35A, 25A (NO/NC) 14VDC
Max. switching voltage	75VDC	
Max. breaking capacity	490W	
Max. switching current	40A	
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	1.3 @ 23°C (std), 0.9 @ 23°C (sensitive)
Operate / Release time	ms	≤ 10

Insulation

Coil insulation 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 ⁷

Environmental

Environmental protection	IP67 or dust cover	
Ambient temperature	-40 to +125°	
Relative humidity	85% (40°C)	
Mechanical shock	20g, 11ms	
Vibration resistance	10-40Hz: DA1.27mm, 40-70Hz 5g	
	70-100Hz: DA 0.5mm, 100-500Hz: 10g	
Dimensions	L x W x H	22.5 x 15 x 25.4 (excluding terminals)
Weight	approx.	21g

Ordering Code

D G 9 1 - 7 0 2 1 - 3 6 - 1 0 1 2 - R

Series

Coil code:

See table 1

Contact material

70: AgSnO₂

Contact arrangement

11: SPDT (1 Form C)

21: SPST-NO (1 Form A)

Mounting & terminations

36: Plug-in, 2.8mm QC, Dust cover

86: Plug-in, 2.8mm QC, Sealed IP67

Options

Nil: Standard - no options

DR: Integral diode -85, +86 (standard)

R: Parallel resistor

DC Coil Data (standard)

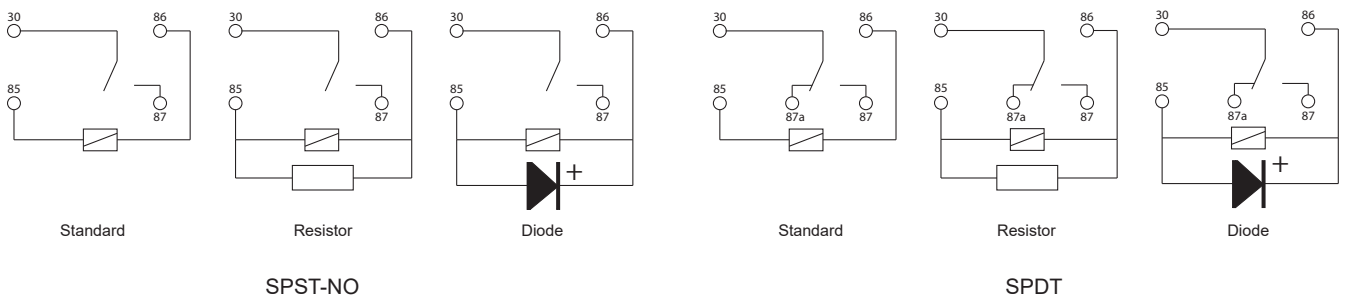
Table 1

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 30°C)	Coil power consumption (W)
1012	12	7.2	15.6	1.2	111	1.3
1024	24	14.4	31.2	2.4	443	1.3
DC Coil Data (sensitive)						
S012	12	7.2	15.6	1.2	160	0.9
S024	24	14.4	31.2	2.4	640	0.9

Circuit Diagram

Fig. 1

Bottom view



Dimensions

Fig. 2

