



- 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

Nominal voltage	DC	6 ... 24V 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 N - 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

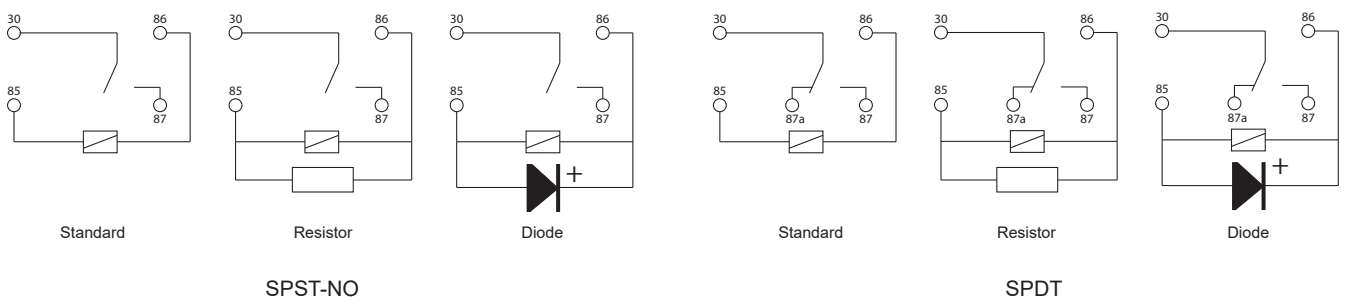
Table 1

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)
1006	6	3.6	7.8	0.6	27	1.3
1012	12	7.2	15.6	1.2	111	1.3
1024	24	14.4	31.2	2.4	443	1.3
S006	6	3.6	7.8	0.6	40	0.9
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

