



- Mini-ISO miniature delay on or delay off timer
- Industry standard terminal layout
- Made using UL94-V0 approved plastics
- Engine ECU shut down timing
- Heated rear windows, sunroof motors, alarms
- High continuous DC current capacity

RoHS   
Compliant

### Contacts

Contact arrangement	SPST-NO, SPDT
Contact material	AgSnO <sub>2</sub>
Rated current	DC1 30A 13.5VDC / 20A 24VDC
Max. switching voltage	145VDC
Max. breaking current	30A
Max. switching power	840W
Initial contact resistance	≤ 100mΩ at 0.1A, 6VDC

### Coil

Nominal voltage	DC 12V, 24V
Rated power consumption	<0.9W

### Insulation

Insulation resistance	>100 MΩ at 500VDC, 50%RH, 25°C
Dielectric strength	coil to contact 750Vrms, 1min
	open contacts 500Vrms, 1min

### General data

Timer function	Delay-on, Delay-off on signal - see Fig.2
Electrical life at full rated load	ops. 1x10 <sup>5</sup>
Mechanical life	ops. 1 x 10 <sup>6</sup>

### Environmental

Environmental protection	IP54, IP67
Ambient temperature	operating -30 to 85°C
	storage -40 to +125°C
Mechanical shock	functional 20g, (200m/s <sup>2</sup> )
Vibration resistance	functional 5g (49m/s <sup>2</sup> ), 10Hz-500Hz
Dimensions	L x W x H 26.0 x 26.0 x 25.0mm
Weight	approx. 34g

### Ordering code

D G 5 7 T - 7 0 1 1 - 7 6 - 1 0 1 2 - D 0 0 2 - Y

**Series**

**Contact material**

**70:** AgSnO<sub>2</sub>

**Contact arrangement**

**11:** SPDT Function D only  
**12:** SPST-NO

**Environmental protection**

**3:** IP67  
**7:** IP54

**Connection Mode**

**6:** Flat blades, Plug in, 6.35mm blades

**Coil code:**

See table 1

**Timer function<sup>1</sup>**

**D:** Delay - ON  
**F:** Delay - OFF - On signal (SPST-NO only)

**Time range (in seconds)**

**001 to 999** (e.g 002 = 2 seconds)

**Alternative terminal configuration (function D only)**

**Blank:** Standard configuration (fig. 1)

**Y:** Alternate configuration (fig. 1)

**Functionality**

**Delay on:** 12VDC (or 24VDC)<sup>2</sup> is applied to terminals 85 & 86. After the preset time interval has expired, the contacts change state.

**Delay off:** 12VDC (or 24VDC)<sup>2</sup> is applied to terminals 2 & 4 constantly. Applying 12VDC (or 24VDC)<sup>2</sup> to terminal 1 causes the contact to close immediately. Removing the voltage applied to terminal 1 starts the preset time period. After the time period has elapsed, the contacts open.

<sup>(2)</sup> ensure the applied voltage is the same as the coil voltage (table 1) or damage may occur.)

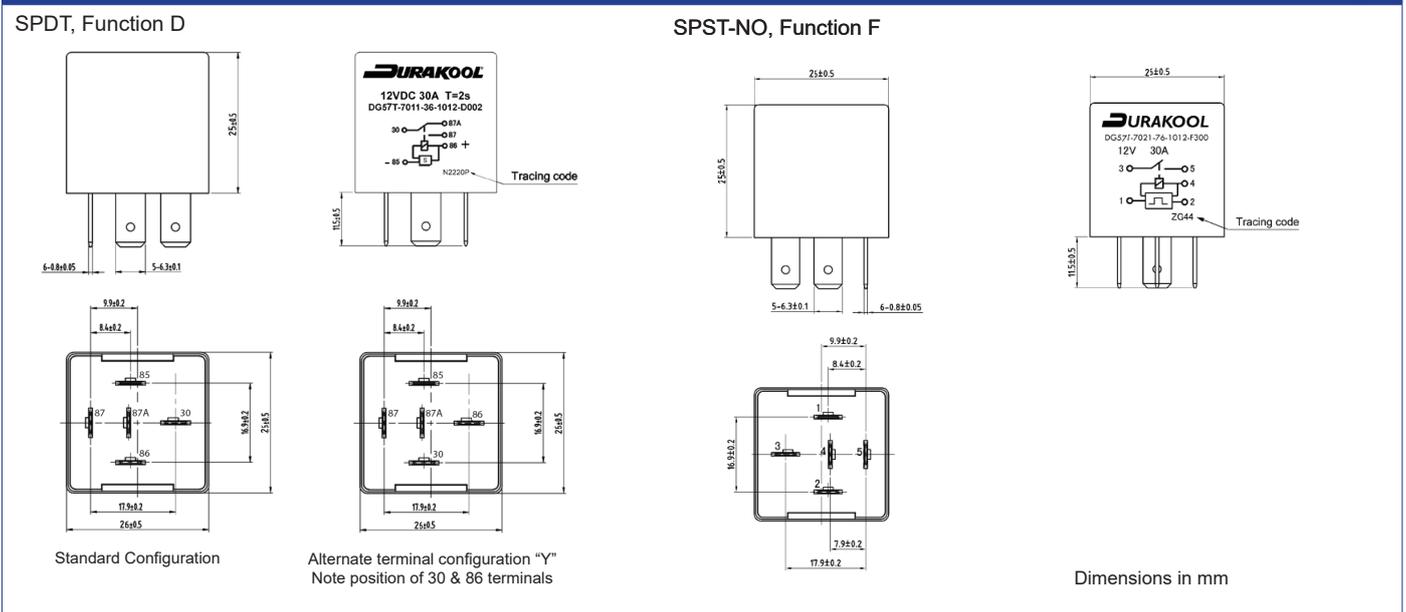
Notes:  
1: All parameters, unless otherwise specified, are measured at ambient temperature of 23°C.

**Coil Data** **table 1**

Coil code	Nominal coil voltage (V DC)	Coil resistance ( $\Omega$ ) $\pm 10\%$	Must operate voltage max (V DC)	Allowable voltage* (V DC)	Must release voltage min. (V DC)	Optional parallel resistor value
1006	6.0	32.0	3.6	10.4	0.6	170.0
1012	12.0	123.0	7.2	20.4	1.2	680.0
1024	24.0	483.0	14.4	40.4	2.4	2720.0

\* At ambient temperature of 85°C, maximum allowable voltage should be reduced by 28%

**Dimensions (mm)** **fig. 1**



**Timer Functions** **fig. 2**

