



- 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 ₂ |
| 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 ⁵ |
| Mechanical life | ops. 1 x 10 ⁶ |

Environmental

| | |
|--------------------------|---|
| Environmental protection | IP54, IP67 |
| Ambient temperature | operating -30 to 85°C |
| | storage -40 to +125°C |
| Mechanical shock | functional 20g, (200m/s ²) |
| Vibration resistance | functional 5g (49m/s ²), 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: AgSnO₂

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 function¹

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)² is applied to terminals 85 & 86. After the preset time interval has expired, the contacts change state.

Delay off: 12VDC (or 24VDC)² is applied to terminals 2 & 4 constantly. Applying 12VDC (or 24VDC)² 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.

(² 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

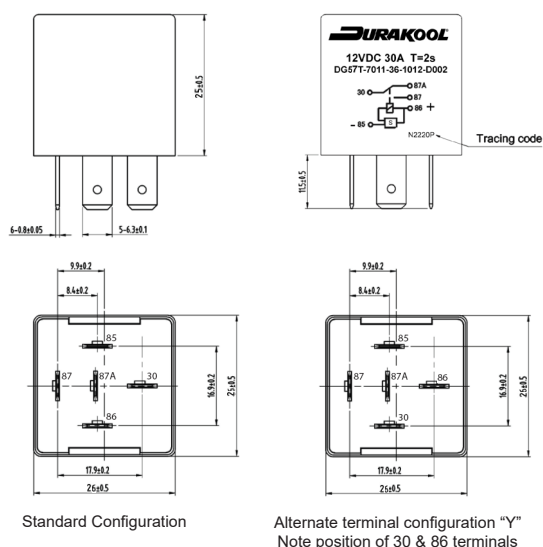
| Coil code | Nominal coil voltage (V DC) | Coil resistance (Ω) $\pm 10\%$ | Must operate voltage max (V DC) | Allowable voltage* (V DC) | Must release voltage min. (V DC) | Optional parallel resistor value |
|-----------|-----------------------------|---|---------------------------------|---------------------------|----------------------------------|----------------------------------|
| 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%

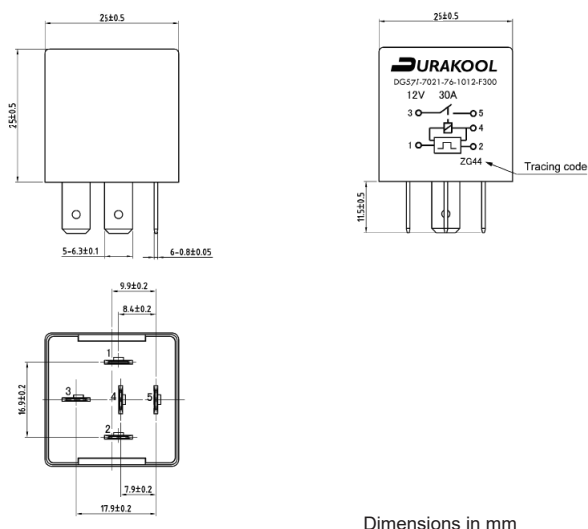
Dimensions (mm)

fig. 1

SPDT, Function D



SPST-NO, Function F



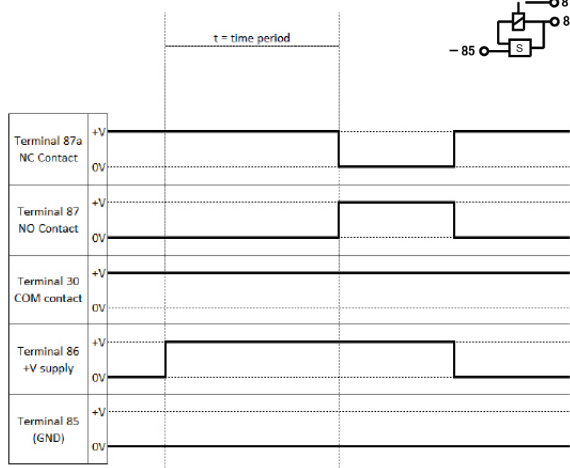
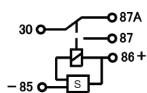
Timer Functions

fig. 2

SPDT, Function D

Ensure polarity is observed for correct operation.

Wiring Diagram

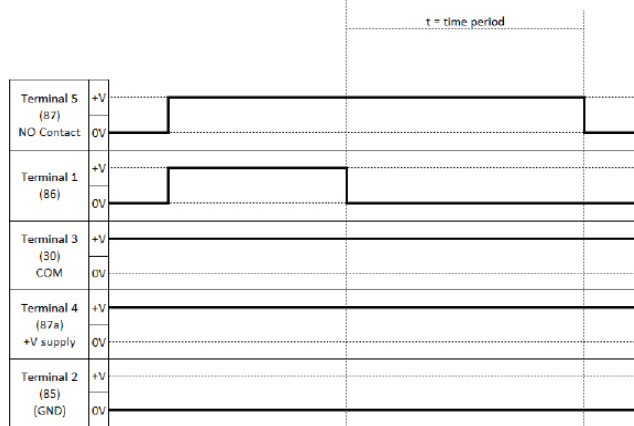
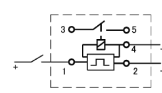


NB: Once the contacts have changed state, they will stay in the changed state so long as supply is connected to Terminals 85 & 86. Contacts will revert back to initial state immediately supply is removed from Terminals 85 & 86.

SPST-NO, Function F

Ensure polarity is observed for correct operation.

Wiring Diagram



NB: If, at anytime, the supply is removed from Terminals 2 & 4, the contacts will open.