- Micro-ISO miniature delay on or delay off timer
- Industry standard terminal layout
- Engine ECU shut down timing
- Heated rear windows, sunroof motors, alarms
- Use additional relay for high currents

RoHS Compliant ✓

Contacts

Contact arrangement		SPST-NO, SPDT
Contact material		$AgSnO_2$
Rated current	DC1	5A 13.5VDC
Max. switching voltage		16VDC
Max. breaking current		5A
Max. switching power		80W
Current carrying capacity		5A
Initial contact resistance		≤ 100mΩ at 0.1A, 6VDC
Max. operating frequency	rated load	360 cycles/hour

Coil

Operating range	DC	12V, 24V
Rated power consumption		>1W

Insulation

Coil insulaton system		
	Insulation resistance	>100 MΩ at 500VDC, 50%RH
Dielectric strength	coil to contact	500Vrms, 1min
	open contacts	500Vrms, 1min

General Data

Timer Function		Delay-on, Delay-off on Signal - see Fig. 1
Electrical life at full rated load	ops	1×10^5
Mechanical life	ops	1×10^6

Environmental

Environmental protection		IP67
Ambient temperature	operating	-40 to +85°C
	storage	-40 to +125°C
Mechanical shock		30g, 6ms
Vibration resistance		6g, 10Hz-500Hz
Dimensions	L x W x H	23.7 x 15.7 x 26mm (excluding terminals)
		(conforms to Micro-ISO standards)
Weight	approx.	25g

Ordering Code

D G 8 2 T - 3 0 2 1 - 3 6 - 1 0 1 2 - D 0 0 2

Series

Coil code:

See table 1

Contact material

30: $AgSnO_2$

Contact arrangement

11: SPDT - Function D only

21: SPST-NO

Mounting & terminations

36: IP67 sealed, Plug-in

Timer function[1]

D: Delay - ON

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

Time range (in seconds)

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

[1] Functionality

Delay on: 12VDC (or 24VDC)[2] is applied to Terminals 1 & 2. After the preset time interval has expired, the contacts change state.

Delay off: 12VDC (or 24VDC)[2] is applied to Terminals 2 & 3 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.
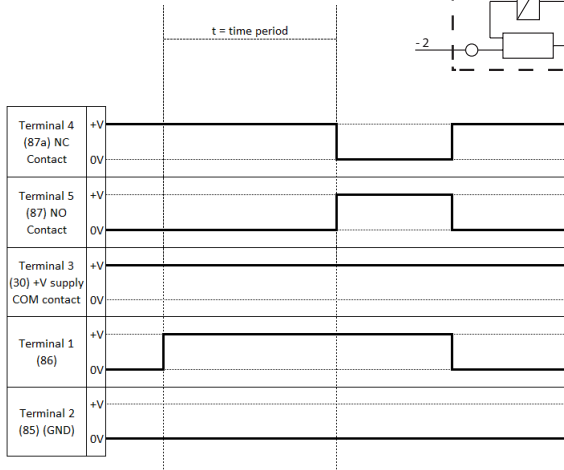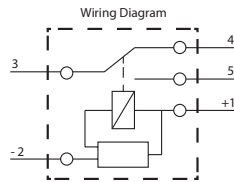
([2] ensure the applied voltage is the same as the coil voltage (Table 1) or damage may occur.)

Specifications are subject to change without notice. E&OE.

DC Coil Data — Table 1

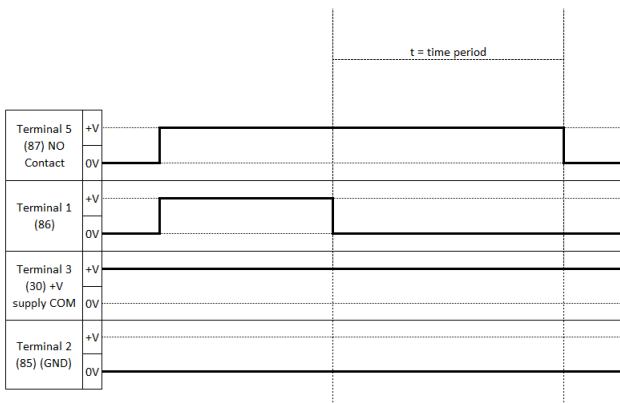| Coil code	Nominal voltage (VDC)	Operting voltage range (VDC)	Must operate voltage max. (VDC@ 20°C)	Must release voltage min. (VDC)
1012	12	9 ~ 15	9.0	1.2
1024	24	20 ~ 28	20.0	2.4

Timer Functions — Fig 1

SPDT, Function D
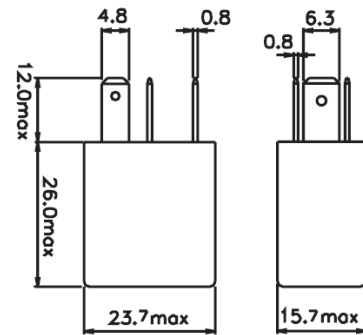Ensure polarity is observed for correct operation.

Wiring Diagram

t = time period

Terminal 4 (87a) NC Contact

Terminal 5 (87) NO Contact

Terminal 3 (30) +V supply COM contact

Terminal 1 (86)

Terminal 2 (85) (GND)

SPST-NO, Function F
Ensure polarity is observed for correct operation.

Wiring Diagram

t = time period

Terminal 5 (87) NO Contact

Terminal 1 (86)

Terminal 3 (30) +V supply COM

Terminal 2 (85) (GND)

Dimensions — Fig 2

4.8   0.8   6.3   0.8

12.0max   26.0max   23.7max   15.7max

11.4±0.2   9±0.2   6±0.15   8±0.15
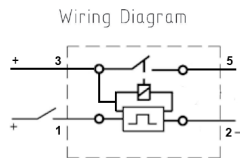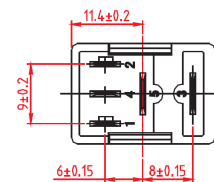
Terminal 4 not fitted for SPST-NO types

Dimensions in mm

DG82T 010722FW

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