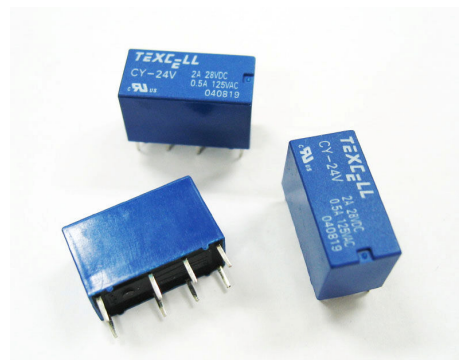


► FEATURES

- High sensitivity, 79mW pick-up
- Low power consumption 200mW
- High reliability ensured by gold overlay bifurcated contacts.
- Epoxy sealed for automatic wave soldering and cleaning
- DIL pin arrangement in 2.54mm pitch
- UL&TUV approved



► SPECIFICATIONS

Coil data(at20℃)

Standard type

Nominal Voltage VDC	Pick-up voltage VDC (Max.)	Drop-out voltage VDC (Min.)	Nominal current mA(±10%)	Coil resistance Ω(±10%)	Power consumption (mW)	Max. supply voltage (V)
4.5	3.15	0.45	44.5	101	200	7.6
5	3.5	0.5	40	125	200	8.5
6	4.2	0.6	33.5	180	200	10
9	6.3	0.9	22.2	405	200	15
12	8.4	1.2	16.7	720	200	20
24	16.8	2.4	8.3	2,880	200	40
48	33.6	4.8	6.3	7,680	300	80

High sensitivity type

Nominal Voltage VDC	Pick-up voltage VDC (Max.)	Drop-out voltage VDC (Min.)	Nominal current mA(±10%)	Coil resistance Ω(±10%)	Power consumption (mW)	Max. supply voltage (V)
4.5	3.15	0.45	33.3	135	150	7.6
5	3.5	0.5	29.9	167	150	8.5
6	4.2	0.6	25.0	240	150	10
9	6.3	0.9	16.6	540	150	15
12	8.4	1.2	12.5	960	150	20
24	16.8	2.4	7.5	3,200	180	40
48	33.6	4.8	4.0	12,000	192	80

▶ CONTACT DATA

Item/Arrangement	DPDT(2 Form C)
Rated load	Resistive load 2A, 28VDC 1.0A, 125VAC 0.3A, 150VAC
Max. carrying current	2A
Max. Switching Voltage	220VAC or 150VDC
Max. Switching current	2A DC or 0.5A AC
Max. Switching power	50VA or 30W
Contact material	Au overlaid Ag alloy

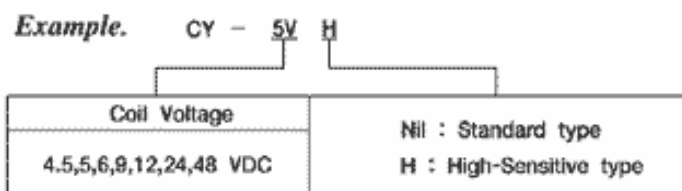
▶ CHARACTERISTICS (at initial value)

Contact resistance		Max. 60mΩ
Operate time (nominal voltage)		Max. 6ms
Release time (nominal voltage)		Max. 4ms
Bounce time	in Operate	Max. 2ms
	in Release	Max. 6ms
Insulation resistance		Min. 1000MΩ (at 500VDC)
Surge voltage strength		Between contact and coil 1,500V 10 x 160 μ s
electric strength	Coil and contacts	1,000 VAC/min
	Open contacts	750 VAC/min
	Between contact springs	1,000 VAC/min
Vibration resistance	Functional	10~55Hz double amplitude 1.5mm
	Destructive	10~55Hz double amplitude 4.0mm
Shock Resistance	Functional	98m/s ² (10G)
	Destructive	980m/s ² (100G)
Ambient temperature	Storage	-40~ + 90℃
	Operating	-40~ + 85℃
Temperature rise		Max. 30deg(at nominal voltage)
Life expectancy	Mechanical	2 x 10 ⁷ operations
	Electrical (resistive load)	1 x 10 ⁶ operations(20mVAC, 1mA) 1 x 10 ⁶ operations(20VDC, 20mA) 1 x 10 ⁶ operations(24VDC, 1.25A) 1 x 10 ⁵ operations(100VAC, 0.5A)
Weight (about)		6g

▶ APPROVED BY STANDARD

Coil rating	Contact form	cUL(File No. E122258)	TUV(File No. R2137306)
4.5V ~ 48V	DPDT (2C)	1A 125VAC 2A 28VDC	0.3A 100VAC 1.25A 24VDC

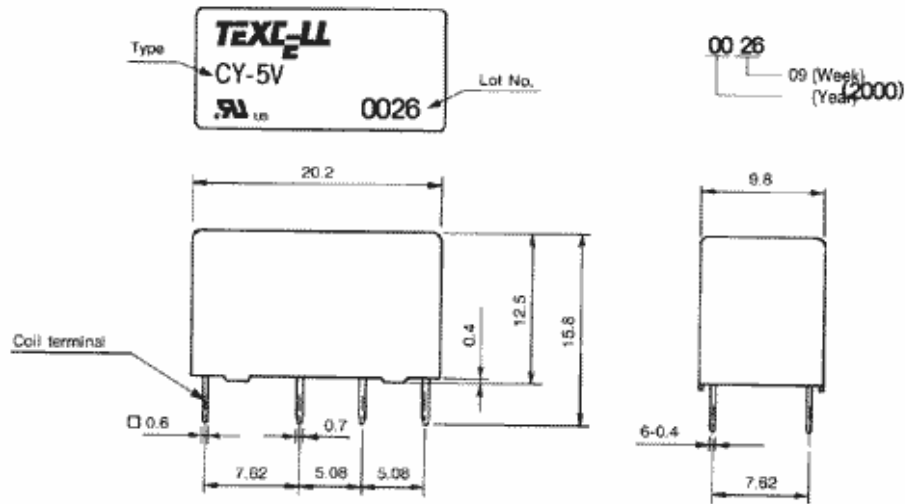
▶ ORDERING INFORMATION



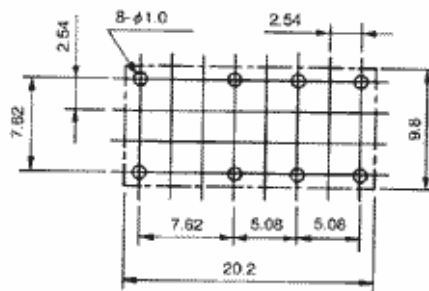
▶ DIMENSIONS

An illustration of indication

An illustration of Lot No.

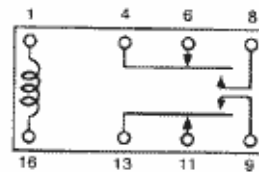


Tolerance : ± 0.3



PCB Layout (Bottom View)

Tolerance : ± 0.1

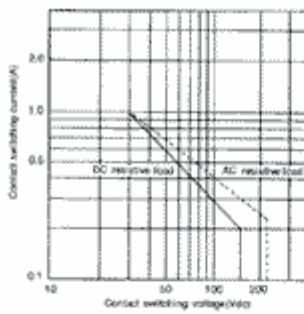


Circuit (Bottom View)

Unit: mm

▶ DATA

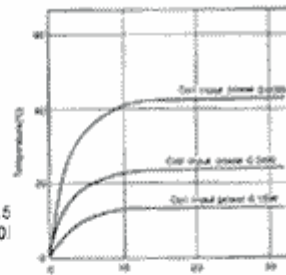
Contact switching capacity



Coil temperature rise

Specimen
Measurement condition

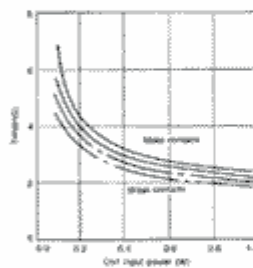
: CY-5V
: Coil input power 0.15W/5Vdc, (Nominal voltage)
0.34W/7.5Vdc, (Nominal voltage) × 1.5
0.60W/10Vdc, (Nominal voltage) × 2.0
Ambient temperature 20℃



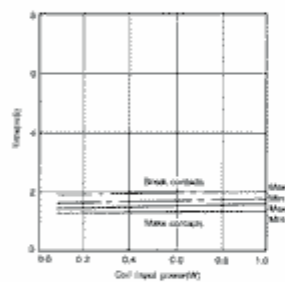
Functioning time vs. coil input power

Specimen : CY-5V
Number of specimen : 5
Measurement conditions : Ambient temperature 20℃

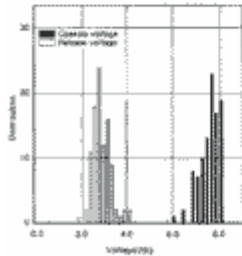
Operate time vs. coil input power



Release time vs. coil input power



Operate and release voltages



Specimen
Number of specimen
Measurement conditions

: CY-12V
: 100
: Coil input voltage
Ambient temperature

12Vdc(Nominal voltage)
20℃

Operate and release times

Specimen : CY-12V
Number of specimen : 200
Measurement conditions : Coil input voltage 12Vdc(Nominal voltage)
Ambient temperature 20℃

