# SCLD/SCLB

## Features

- ☐ 5A general purpose Power Relay.
- ☐ DPDT & 4PDT contact configurations.
- ☐ AC & DC coil.
- ☐ Epoxy sealed type and or flux free type.
- ☐ Optional to be equipped with lamp, stud, diode, flashed contact, and flanged cover.

## Type List

| Terminal style | Contact form | Designation (provided with) | Enclosure style | | |
|---|---|---|---|---|---|
| | | | Straight cover | Flanged cover | Sealed type washable |
| W (Quick terminal) | 4PDT | ------- | SCLD-W-B-4PDT-C | SCLD-W-B-4PDT-C1 | SCLD-W-B-4PDT-S |
| | DPDT | | SCLB-W-DPDT-C | SCLB-W-DPDT-C1 | SCLB-W-DPDT-C-S |
| | 4PDT | Diode | SCLD-W-B-D-4PDT-C | SCLD-W-B-D-4PDT-C1 | SCLD-W-B-D-4PDT-S |
| | DPDT | | SCLB-W-D-DPDT-C | SCLB-W-D-DPDT-C1 | ---------- |
| | 4PDT | Ag Contact | SCLD-W-B-F-4PDT-C | SCLD-W-B-F-4PDT-C1 | SCLD-W-B-F-4PDT-S |
| | DPDT | | SCLB-W-F-DPDT-C | SCLB-W-F-DPDT-C1 | ---------- |
| | 4PDT | Stud | SCLD-W-B-G-4PDT-C | SCLD-W-B-G-4PDT-C1 | SCLD-W-B-G-4PDT-S |
| | DPDT | | SCLB-W-G-DPDT-C | ---------- | ---------- |
| | 4PDT | Lamp | SCLD-W-B-L-4PDT-C | SCLD-W-B-L-4PDT-C1 | SCLD-W-B-L-4PDT-S |
| | DPDT | | SCLB-W-L-DPDT-C | SCLB-W-L-DPDT-C1 | ---------- |
| P (PCB terminal) | 4PDT | ------- | SCLD-P-B-4PDT-C | SCLD-P-B-4PDT-C1 | SCLD-P-B-4PDT-S |
| | DPDT | | SCLB-P-DPDT-C | SCLB-P-DPDT-C1 | ---------- |
| | 4PDT | Diode | SCLD-P-B-D-4PDT-C | SCLD-P-B-D-4PDT-C1 | SCLD-P-B-D-4PDT-S |
| | DPDT | | SCLB-P-D-DPDT-C | SCLB-P-D-DPDT-C1 | ---------- |
| | 4PDT | Ag Contact | SCLD-P-B-F-4PDT-C | SCLD-P-B-F-4PDT-C1 | SCLD-P-B-F-4PDT-S |
| | DPDT | | SCLB-P-F-DPDT-C | SCLB-P-F-DPDT-C1 | ---------- |
| | 4PDT | Stud | SCLD-P-B-G-4PDT-C | SCLD-P-B-G-4PDT-C1 | SCLD-P-B-G-4PDT-S |
| | DPDT | | SCLB-P-G-DPDT-C | ---------- | ---------- |
| | 4PDT | Lamp | SCLD-P-B-L-4PDT-C | SCLD-P-B-L-4PDT-C1 | SCLD-P-B-L-4PDT-S |
| | DPDT | | SCLB-P-L-DPDT-C | SCLB-P-L-DPDT-C1 | ---------- |
| | 4PDT | Manual | SCLD-P-B-M-4PDT-C | SCLD-P-B-M-4PDT-C1 | ---------- |
| | DPDT | | SCLB-P-M-DPDT-C | ---------- | ---------- |

## Ordering Information

| SCL | B | P | - | B | - | L | - | DPDT | - | C1 |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | | 4 | | 5 | | 6 | | 7 |

1. SCL -- Basic series designation

2. B -- Double pole
   D -- Four pole

3. P -- PCB terminal
   W -- Quick terminal

4. Blank -- Without any special features
   B -- Provided with contact barrier

5. Blank -- No special features
   D -- Diode across coil

   F -- Ag contact with Au plating - 3A rating
   G -- Provided with stud secured to base
   L -- Provided with pilot light
   M -- Provided with manual operator

6. DPDT -- Double pole double throw
   4PDT -- Four pole double throw

7. Blank -- Open type
   C -- Straight cover
   C1 -- Flanged cover
   V -- Sealed type
   S -- Sealed type washable

## Contact Rating

| | | | |
|---|---|---|---|
| Resistive load | 5A 28VDC | General Use | 5A 250VAC |

## Coil Rating (DC)

| Rated voltage (V) | Rated current ±10 % at 23˚C (mA) | Coil resistance ±10 % at 23˚C (Ω) | Max. continuous voltage at 70˚C | Pick up voltage(Max) at 23˚C | Drop out voltage(Min) at 23˚C | Power consumption at rated voltage |
|---|---|---|---|---|---|---|
| 6 | 150 | 40 | 110 % of rated voltage | 75 % of rated voltage | 10 % of rated voltage | approx. 0.9W |
| 12 | 75 | 160 | | | | |
| 15 | 60 | 250 | | | | |
| 24 | 37 | 650 | | | | |
| 48 | 19 | 2600 | | | | |
| 110 | 10 | 11000 | | | | |
| 120 | 11 | 11000 | | | | |

## Coil Rating (AC)

| Rated voltage (V) | Coil resistance ±10 % at 23˚C (Ω) | Max. continuous voltage at 70˚C | Pick up voltage(Max) at 23˚C | Drop out voltage(Min) at 23˚C | Power consumption at rated voltage |
|---|---|---|---|---|---|
| 12 | 40 | 110 % of rated voltage | 85 % of rated voltage | 30 % of rated voltage | approx. 1.2VA |
| 24 | 160 | | | | |
| 100 | 3400 | | | | |
| 110 | 3400 | | | | |
| 115 | 3400 | | | | |
| 120 | 3400 | | | | |
| 220 | 13600 | | | | |
| 230 | 13600 | | | | |
| 240 | 13600 | | | | |

# SCLD/SCLB

## Specification

| | | |
|---|---|---|
| Contact material | AgNi / AgCdO / Ag alloy | |
| Contact resistance (1) | 50 mΩ Max. | |
| Operate time (1) | 25 ms Max. | |
| Release time (1) | 25 ms Max. | |
| Insulation resistance (1) | 100 MΩ Min. (DC 500V) | |
| Dielectric strength (1) | Between open contact | : AC 500V , 50/60Hz 1 min. |
| | Between contact and coil | : AC 1500V , 50/60Hz 1 min. |
| | Between contact circuits | : AC 1500V , 50/60Hz 1 min. |
| Vibration resistance | Operating extremes | 10～55Hz , amplitude 1.0 mm |
| | Damage limits | 10～55Hz , amplitude 1.0 mm |
| Shock resistance | Operating extremes | 20G |
| | Damage limits | 100G |
| Life expectancy | Mechanical | 10,000,000 operations (frequency 18,000 operations/hr) |
| | Electrical | 100,000 operations (frequency 1,800 operations/hr) |
| Operating ambient temperature | -25～+70˚C (no freezing) | |
| Weight | Approx. 35 g (LD)、32 g (LB) | |

Note : (1) initial value

## Safety Approval

| Certified | UL | CSA | TUV | FIMKO |
|---|---|---|---|---|
| File No. | E88991 | LR90143 | R3-09452080 | 12747 |

## Safety Approval Rating

| UL | CSA | UL & CSA (-F) | TUV | FIMKO |
|---|---|---|---|---|
| 5A 250VAC<br>5A 28VDC<br>1/8HP 3.8FLA,120VAC | 5A 250VAC<br>5A 28VDC | 3A 250VAC<br>3A 30VDC | 5A 250VAC<br>5A 30VDC | 5A 250VAC |

## Outline Dimensions

◆LB-W C1

◆LB-W C

◆LB-P C

38
(1.496)
4.5
(0.177)
21.5
(0.846)
1.2
(0.047)
2.6
(0.102)
27.5
(1.083)
0.5
(0.020)
1
(0.039)
41.5
(1.634)
13.2
(0.520)
4
(0.157)
6.35
(0.250)
4.1
(0.161)
6.35
(0.250)

◆LD-W C1

3
(0.118)
1.2
(0.047)
21.5
(0.846)
2.6
(0.102)
2
(0.079)
27.5
(1.083)
0.5
(0.020)
1
(0.039)
36
(1.417)
6.5
(0.256)
41.5
(1.634)
4.4
(0.173)
4.4
(0.173)
4.4
(0.173)
4
(0.157)
6.35
(0.250)
4.1
(0.161)
38
(1.496)
44
(1.732)
6.35
(0.250)
3.5
(0.138)

◆LD-W C

3
(0.118)
1.2
(0.047)
21.5
(0.846)
2.6
(0.102)
27.5
(1.083)
0.5
(0.020)
1
(0.039)
36
(1.417)
6.5
(0.256)
41.5
(1.634)
4.4
(0.173)
4.4
(0.173)
4.4
(0.173)
4
(0.157)
6.35
(0.250)
4.1
(0.161)
6.35
(0.250)

◆LD-P C

38
(1.496)
4.5
(0.177)
21.5
(0.846)
1.2
(0.047)
2.6
(0.102)
27.5
(1.083)
0.5
(0.020)
1
(0.039)
41.5
(1.634)
4.4
(0.173)
4.4
(0.173)
4.4
(0.173)
4
(0.157)
6.35
(0.250)
4.1
(0.161)
6.35
(0.250)

# SCLD/SCLB

## ◆LD-W M

## Wiring Diagram

BOTTOM VIEW

DPDT

4PDT

## PC Board Layout

BOTTOM VIEW

DPDT

4PDT

## Designation(Provided with)

BOTTOM VIEW

Lamp

(100~240VAC)

(6~48VDC)

(6~48VAC)

Diode

## Engineering Data

Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.

**Как с нами связаться**

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