

Solid State Auto Switch Direct Mounting Style D-Y59^A_B/D-Y69^A_B/D-Y7P(V)



Refer to SMC website for the details of the products conforming to the international standards.

Auto Switch Specifications

PLC: Programmable Logic Controller

| D-Y5□, D-Y6□, D-Y7P, D-Y7PV (With indicator light) | | | | | | |
|--|---|---------------|---------------|---------------|--------------------------|---------------|
| Auto switch model | D-Y59A | D-Y69A | D-Y7P | D-Y7PV | D-Y59B | D-Y69B |
| Electrical entry direction | In-line | Perpendicular | In-line | Perpendicular | In-line | Perpendicular |
| Wiring type | 3-wire | | | | 2-wire | |
| Output type | NPN | | PNP | | — | |
| Applicable load | IC circuit, Relay, PLC | | | | 24 VDC relay, PLC | |
| Power supply voltage | 5, 12, 24 VDC (4.5 to 28 VDC) | | | | — | |
| Current consumption | 10 mA or less | | | | — | |
| Load voltage | 28 VDC or less | | — | | 24 VDC (10 to 28 VDC) | |
| Load current | 40 mA or less | | 80 mA or less | | 2.5 to 40 mA | |
| Internal voltage drop | 1.5 V or less (0.8 V or less at 10 mA load current) | | 0.8 V or less | | 4 V or less | |
| Leakage current | 100 μA or less at 24 VDC | | | | 0.8 mA or less at 24 VDC | |
| Indicator light | Red LED illuminates when turned ON. | | | | | |
| Standard | CE marking | | | | | |

• Lead wires — Oilproof flexible heavy-duty vinyl cord, ø3.4, 0.15 mm², 3 cores (Brown, Black, Blue), 2 cores (Brown, Blue), 0.5 m

Note 1) Refer to page 1272 for solid state auto switch common specifications.

Note 2) Refer to page 1272 for lead wire lengths.

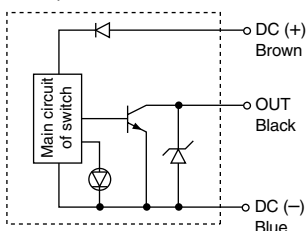
Grommet

Using flexible cable as standard spec.

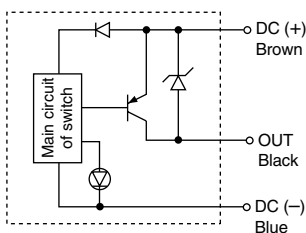


Auto Switch Internal Circuit

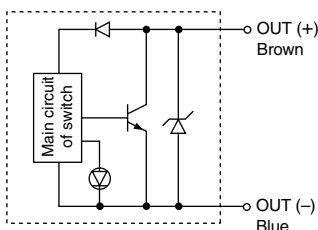
D-Y59A, D-Y69A



D-Y7P, D-Y7PV



D-Y59B, D-Y69B



Mass

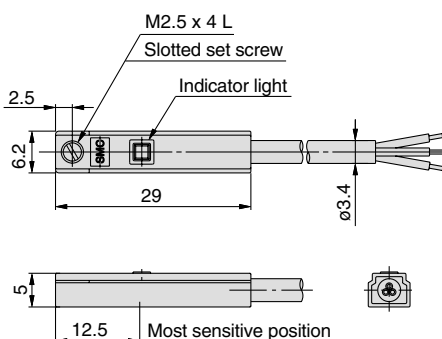
(g)

| Auto switch model | D-Y59B | D-Y69B | D-Y59A | D-Y69A | D-Y7P(V) |
|----------------------|--------|--------|--------|--------|----------|
| Lead wire length (m) | 0.5 | 9 | 10 | 10 | 10 |
| | 3 | 50 | 53 | 53 | 53 |
| | 5 | 83 | 87 | 87 | 87 |

Dimensions

(mm)

D-Y59A/D-Y7P/D-Y59B



D-Y69A/D-Y7PV/D-Y69B

