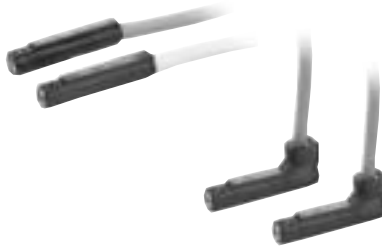


# Reed Auto Switch Direct Mounting Style D-A90(V)/D-A93(V)/D-A96(V)



## Grommet



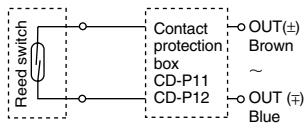
## Caution

### Precautions

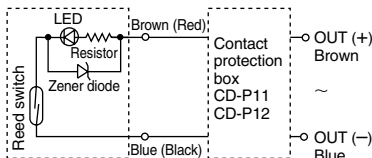
Do not fix the auto switch with the existing screw installed on the auto switch body. The auto switch may be damaged if a screw other than the one supplied is used.

## Auto Switch Internal Circuit

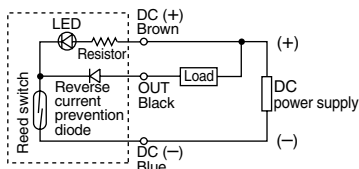
### D-A90, A90V



### D-A93, A93V



### D-A96, A96V



Note 1) Operating load is an induction load.  
Note 2) Wiring to the load is 5 m or longer.  
Note 3) Load voltage is 100 VAC.  
Use the contact protection box in any of the above listed situations. The contact point life may decrease. (Refer to page 1273 for contact protection box.)

## Auto Switch Specifications



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

PLC: Programmable Logic Controller

### D-A90, D-A90V (Without indicator light)

Auto switch model	D-A90, D-A90V		
Applicable load	IC circuit, Relay, PLC		
Load voltage	24 V $\frac{AC}{DC}$ or less	48 V $\frac{AC}{DC}$ or less	100 V $\frac{AC}{DC}$ or less
Maximum load current	50 mA	40 mA	20 mA
Contact protection circuit	None		
Internal resistance	1 $\Omega$ or less (Including lead wire length of 3 m)		
Standard	CE marking		

### D-A93, D-A93V, D-A96, D-A96V (With indicator light)

Auto switch model	D-A93, D-A93V	D-A96, D-A96V
Applicable load	Relay, PLC	IC circuit
Load voltage	24 VDC	100 VAC
Load current range and Maximum load current <sup>(3)</sup>	5 to 40 mA	20 mA
Contact protection circuit	None	
Internal voltage drop	D-A93: 2.4 V or less (up to 20 mA)/3 V or less (up to 40 mA) D-A93V: 2.7 V or less	0.8 V or less
Indicator light	Red LED illuminates when turned ON.	
Standard	CE marking	

#### Lead wires

D-A90(V)/D-A93(V)—Oilproof heavy-duty vinyl cord,  $\phi 2.7$ , 0.18 mm<sup>2</sup> x 2 cores (Brown, Blue), 0.5 m  
D-A96(V)—Oilproof heavy-duty vinyl cord,  $\phi 2.7$ , 0.15 mm<sup>2</sup> x 3 cores (Brown, Black, Blue), 0.5 m

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

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

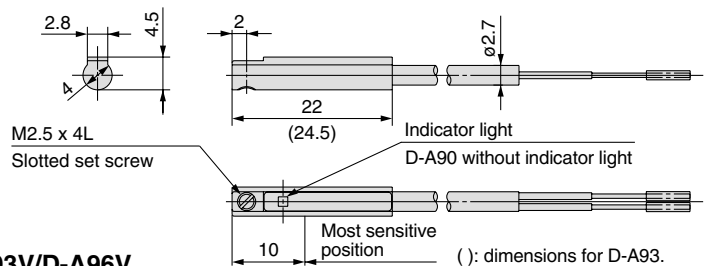
Note 3) Under 5 mA, the strength of the indicator light is poor. In some cases, visibility of the indicator light will not be possible where the output signal is less than 2.5 mA. However, there is no problem in terms of contact output, when an output signal exceeds 1 mA or more.

## Mass

Model	D-A90	D-A90V	D-A93	D-A93V	D-A96	D-A96V
Lead wire length (m)	0.5	6	6	6	8	8
	3	30	30	30	41	41

## Dimensions

### D-A90/D-A93/D-A96



### D-A90V/D-A93V/D-A96V

