

# Solid State Auto Switch Direct Mounting Style D-F8N/D-F8P/D-F8B



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

## Auto Switch Specifications

PLC: Programmable Logic Controller

### D-F8□ (With indicator light)

Auto switch model	D-F8N	D-F8P	D-F8B
Electrical entry direction	Perpendicular	Perpendicular	Perpendicular
Wiring type	3-wire		2-wire
Output type	NPN	PNP	—
Applicable load	IC circuit, 24 VDC 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 $\mu$ A 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 heavy-duty vinyl cord,  $\phi 2.7$   
D-F8N, D-F8P 0.15 mm<sup>2</sup> x 3 cores (Brown, Black, Blue)  
D-F8B 0.18 mm<sup>2</sup> x 2 cores (Brown, Blue)

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

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

## Grommet



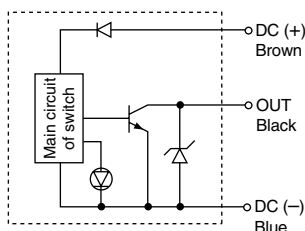
## Caution

### Precautions

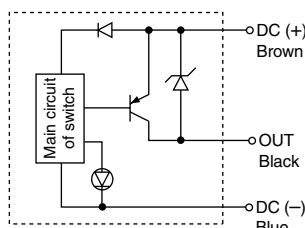
Fix the auto switch with the existing screw installed on the auto switch body. The auto switch may be damaged if a screw other than the one supplied is used.

## Auto Switch Internal Circuit

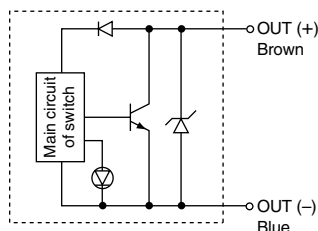
### D-F8N



### D-F8P



### D-F8B



## Mass

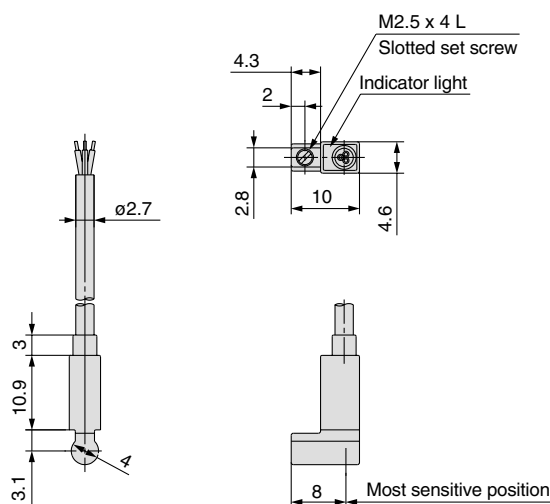
(g)

Auto switch model	D-F8N	D-F8P	D-F8B
Lead wire length (m)	0.5	7	7
	3	32	32
	5	52	52

## Dimensions

(mm)

### D-F8N/D-F8P/D-F8B



D-□