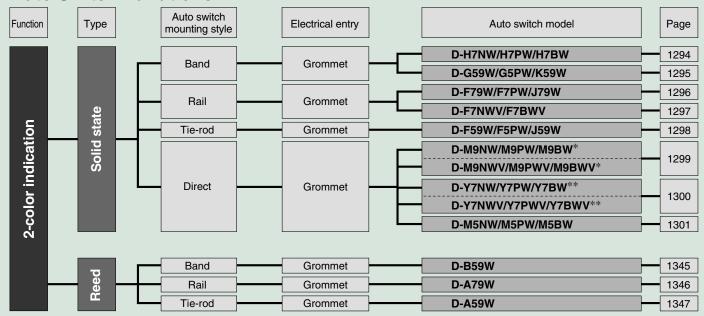
#### **Auto Switch Variations 2**



<sup>\*</sup> These auto switches can be mounted with a band (except D-M9□WV and M9□AVL), a rail, a tie-rod or a square groove when auto switch mounting brackets are used. Refer to pages 1356, 1360, 1364, 1368 and 1369 for details.

### 2-color indication

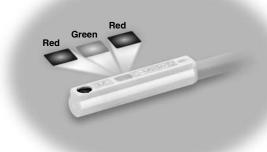
## Easily identifiable, proper operating range

•Mounting positions can be set easily. Proper operating range can be set while watching the lights.

Displacement of the detecting position can be visually checked.

Trouble caused by incorrect detection can be prevented beforehand.

ON			
Red	Green	Red	OFF
• •	Proper operating range	<b>+</b>	
_	Operating range		



Even if 2-color indication solid state auto switches are fixed at a proper operating range (the green light lights up), the operation may become unstable depending on the installation environment or magnetic field disturbance.

(Magnetic body, external magnetic field, proximal installation of cylinders with built-in magnet and actuators, temperature change, other factors for magnetic force fluctuation during operation, etc.)

Band mounting Rail mounting Tie-rod mounting Direct mounting

<sup>\*</sup> These auto switches can be mounted with a tie-rod when auto switch mounting brackets are used. Refer to page 1367 for details.

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

 $\epsilon$ 

## Grommet

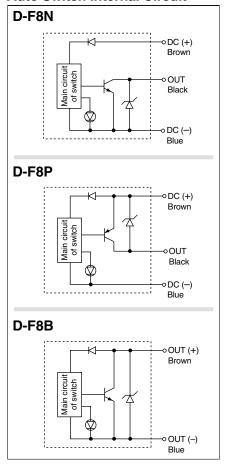


#### **∆**Caution

#### **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**



#### **Auto Switch Specifications**



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

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	urrent 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						

<sup>•</sup> Lead wires - Oilproof heavy-duty vinyl cord, ø2.7

D-F8N, D-F8P 0.15 mm<sup>2</sup> x 3 cores (Brown, Black, Blue)

D-F8B 0.18 mm² 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.

Mass (g)

Auto switch mode	el	D-F8N	D-F8P	D-F8B
	0.5	7	7	7
Lead wire length (m)	3	32	32	32
(111)	5	52	52	52

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

(mm)

