

# Solid State Auto Switch

## Rail Mounting Type

### D-F7NV/D-F7PV/D-F7BV



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

#### Auto Switch Specifications

PLC: Programmable Logic Controller

D-F7□V (With indicator light)			
Auto switch model	D-F7NV	D-F7PV	D-F7BV
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	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, RoHS		

#### Oilproof Heavy-duty Lead Wire Specifications

Auto switch model		D-F7NV	D-F7PV	D-F7BV
Sheath	Outside diameter [mm]	$\phi$ 3.4		
Insulator	Number of cores	3 cores (Brown/Blue/Black)		2 cores (Brown/Blue)
	Outside diameter [mm]	$\phi$ 1.1		
Conductor	Effective area [mm <sup>2</sup> ]	0.2		
	Strand diameter [mm]	$\phi$ 0.08		
Minimum bending radius [mm] (Reference values)		21		

Note 1) Refer to page 1584 for solid state auto switch common specifications.  
Note 2) Refer to page 1584 for lead wire lengths.

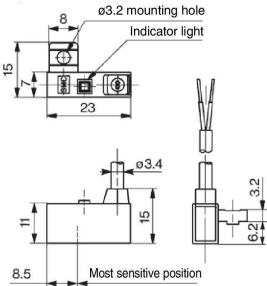
#### Weight

(g)

Auto switch model		D-F7NV	D-F7PV	D-F7BV
Lead wire length	0.5 m (Nil)	13		11
	3 m (L)	57		50
	5 m (Z)	92		81

#### Dimensions

(mm)



D-□