# Solid State Auto Switch with Timer Tie-rod Mounting Type D-F5NT



#### Grommet

- With built-in OFF-delay timer (approx. 200 ms)
- Easy intermediate detection



#### **Auto Switch Specifications**

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

	PLC: Programmable Logic Controller	
D-F5NT (With indicator light)		
Auto switch model	D-F5NT	
Wiring type	3-wire	
Output type	NPN	
Output operation	Off-delay	
Operating time	1 ms or less	
Off-delay time	$200\pm50\ \text{ms}$	
Applicable load	IC circuit, 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	
Load current	40 mA or less	
Internal voltage drop	1.5 V or less (0.8 V or less at 10 mA)	
Leakage current	100 µA 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-F5NT
Sheath	Outside diameter [mm]	ø4
Insulator	Number of cores	3 cores (Brown/Blue/Black)
	Outside diameter [mm]	ø1.22
Conductor	Effective area [mm <sup>2</sup> ]	0.3
	Strand diameter [mm]	ø0.08
Minimum bending radius [mm] (Reference values)		24

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

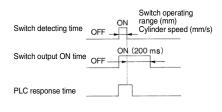
### **Timer Operation**

#### Detection of intermediate positioning for high-speed cylinder

Detecting point dispersion occurs due to response time of PLC (sequencer); e.g. scanning.

Ex.) Cylinder speed — 1000 mm/sec. PLC response time — 0.1 sec. Detecting point dispersion — Within 100 mm (= 1000 mm/sec. x 0.1 sec.)

Take PLC response time into consideration when using.



# Weight

Auto switch model		D-F5NT
Lead wire length	3 m ( <b>L</b> )	81
	5 m ( <b>Z</b> )	127

# Dimensions

(mm)

(g)

