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

Refer to SMC website for the details of

## Grommet

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

the products conforming to the international standards.
Auto Switch Specifications

| D-F5NT (With indicator light) | PLC: Programmable Logic Controller |
| :--- | :---: |
| 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 | $200 \pm 50 \mathrm{~ms}$ |
| Applicable load | IC circuit, Relay, PLC |
| Power supply voltage | $5,12,24 \mathrm{VDC}(4.5$ 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 $(0.8 \mathrm{~V}$ or less at 10 mA) |
| Leakage current | 100 HA 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 $[\mathrm{mm}]$ | $\varnothing 4$ |
| Insulator | Number of cores | 3 cores (Brown/Blue/Black) |
|  | Outside diameter $[\mathrm{mm}]$ | $\varnothing 1.22$ |
| Conductor | Effective area $\left[\mathrm{mm}{ }^{2}\right]$ | 0.3 |
|  | Strand diameter $[\mathrm{mm}]$ | $\varnothing 0.08$ |
| Minimum bending radius $[\mathrm{mm}]$ (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.

## Weight

(g)

| Auto switch model |  | D-F5NT |
| :---: | :---: | :---: |
| Lead wire length | $3 \mathrm{~m}(\mathbf{L})$ | 81 |
|  | $5 \mathrm{~m}(\mathbf{Z})$ | 127 |

Dimensions

## 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 - $1000 \mathrm{~mm} / \mathrm{sec}$.
PLC response time - 0.1 sec . Detecting point dispersion - Within 100 mm ( $=1000 \mathrm{~mm} / \mathrm{sec} . \times 0.1 \mathrm{sec}$. ) Take PLC response time into consideration when using.



