## Solid State Auto Switch Rail Mounting Type <br> D-F7NV/D-F7PV/D-F7BV C $\epsilon$

Refer to SMC website for the detals of
Auto Switch Specifications the products conforming to the international standards.

| PLC: Programmable Logic Controller |  |  |  |
| :---: | :---: | :---: | :---: |
| D-F7 $\square \mathrm{V}$ (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 $(0.8 \mathrm{~V}$ or less at 10 mA load current $)$ | 0.8 V or less | 4 V or less |
| Leakage current | $100 \mu \mathrm{~A}$ 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] | ø3.4 |  |  |
| Insulator | Number of cores | 3 cores | /Black) | 2 cores (Brown/Blue) |
|  | Outside diameter [mm] | $\varnothing 1.1$ |  |  |
| Conductor | Effective area [ $\mathrm{mm}^{2}$ ] | 0.2 |  |  |
|  | Strand diameter [mm] | $\varnothing 0.08$ |  |  |
| 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

| Auto switch model |  | D-F7NV | D-F7PV | D-F7BV |
| :---: | :---: | :---: | :---: | :---: |
| Lead wire length | $0.5 \mathrm{~m}(\mathbf{N i l})$ | 13 | 11 |  |
|  | $3 \mathrm{~m}(\mathbf{L})$ | 57 | 50 |  |
|  | $5 \mathrm{~m}(\mathbf{Z})$ | 92 | 81 |  |



D- $\square$

