

Heat Resistant 2-Color Indicator Solid State Auto Switch: Rail Mounting Type D-F7NJ



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

Grommet

- Improved heat resistant type
- The proper operating range can be determined by the color of the light.
(Red → Green ← Red)



Caution

Precautions

Auto switch which can be mounted on heat resistant, compact cylinder, CDQ2-XB14. For using for other cylinders, please confirm SMC.

D-F7NJ is not applicable for the heat resistant type (-XB6) since a magnet is not built in it.

Auto Switch Specifications

PLC: Programmable Logic Controller

D-F7NJ (With indicator light)	
Auto switch model	D-F7NJ
Wiring type	3-wire
Output type	NPN
Applicable load	Relay, PLC
Power supply voltage	24 VDC (20 to 26 VDC)
Current consumption	25 mA or less
Load voltage	28 VDC or less
Load current	40 mA or less
Internal voltage drop	0.8 V or less
Leakage current	100 μ A at 24 VDC
Indicator light	Operating range Red LED illuminates. Proper operating range Green LED illuminates.
Ambient temperature	Sensor section: 0 to 150°C Amplifier section: 0 to 60°C
Impact resistance	Sensor section: 1000 m/s ² Amplifier section: 300 m/s ²
Standard	CE marking, RoHS

Oilproof Heavy-duty Lead Wire Specifications (Grommet)

Auto switch model		D-F7NJ
Sheath	Outside diameter [mm]	ϕ 3.4
	Number of cores	3 cores (Brown/Blue/Black)
Insulator	Outside diameter [mm]	ϕ 1.1
	Effective area [mm ²]	0.2
Conductor	Strand diameter [mm]	ϕ 0.08
	Minimum bending radius [mm] (Reference values)	21

Weight

(g)

Auto switch model		D-F7NJ
Lead wire length	3 m (L)	170
	5 m (Z)	210

Dimensions

(mm)

