

Heat Resistant 2-Color Indicator Solid State Auto Switch: Direct Mounting Type D-M9NJ/D-M9PJ



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)



D-M9NJ



D-M9PJ

⚠ Caution

Precautions

This auto switch can be mounted on the cylinder with heat resistant auto switch (-XB14) and is not applicable to the heat resistant cylinder (-XB6) since a magnet is not built in it.

Do not disconnect the cable between the sensor and amplifier by the customer.

Even when the sensor and amplifier are connected again, a contact resistance is produced, causing the auto switch to malfunction. Additionally, the sensor and amplifier are paired and they do not operate correctly in different combinations.

Auto Switch Specifications

PLC: Programmable Logic Controller

D-M9NJ/D-M9PJ (With indicator light)		
Auto switch model	D-M9NJ	D-M9PJ
Output type	NPN	PNP
Power supply voltage	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-M9NJ	D-M9PJ
Sheath	Outside diameter [mm]	ϕ 3.4	
Insulator	Number of cores	3 cores (Brown/Blue/Black)	
	Outside diameter [mm]	ϕ 1.1	
Conductor	Effective area [mm ²]	0.2	
	Strand diameter [mm]	ϕ 0.08	
Minimum bending radius [mm] (Reference values)		21	

Weight

(g)

Auto switch model		D-M9NJ	D-M9PJ
Lead wire length	3 m (L)	160	
	5 m (Z)	200	

Dimensions

(mm)

