

# 2-Color Indicator with Diagnostic Output Solid State Auto Switch: Band Mounting Type D-H7NF



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

## Grommet

Since the diagnostic output signal can be detected in the red display area, the difference of detecting position can be confirmed by the side of PLC (Programmable Logic Controller).



PLC: Programmable Logic Controller

## Auto Switch Specifications

D-H7NF (With indicator light)	
Auto switch model	D-H7NF
Wiring type	4-wire
Output type	NPN
Diagnostic output	Normal operation
Applicable load	IC circuit, Relay, PLC
Power voltage	5, 12, 24 VDC (4.5 to 28 VDC)
Current consumption	10 mA or less
Load voltage	28 VDC or less
Load current	50 mA or less at the total amount of normal output and diagnostic output
Internal voltage drop	1.5 V or less (0.8 V or less at each output 5 mA)
Current leakage	100 $\mu$ A or less at 24 VDC
Indicator light	Operating range ..... Red LED illuminates. Proper operating range ..... Green LED illuminates.
Standard	CE marking, RoHS

## Oilproof Heavy-duty Lead Wire Specifications

Auto switch model		D-H7NF
Sheath	Outside diameter [mm]	$\phi$ 3.4
	Number of cores	4 cores (Brown/Blue/Black/Orange)
Insulator	Outside diameter [mm]	$\phi$ 0.98
	Effective area [mm <sup>2</sup> ]	0.2
Conductor	Strand diameter [mm]	$\phi$ 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.

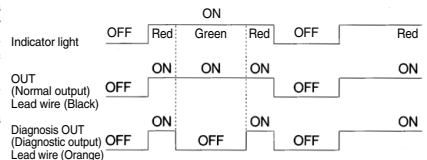
## Weight

(g)

Auto switch model	D-H7NF	
Lead wire length	0.5 m (Nil)	13
	3 m (L)	56
	5 m (Z)	90

## Diagnostic Output Operation

The diagnostic output signal is output within the red display area (where indicator light is Red), and the diagnostic output becomes OFF when the detecting position remains within the proper operating range (where indicator is Green). When the detecting position is not adjusted, the diagnostic output becomes ON.



## Dimensions

(mm)

