

2-Color Indicator with Diagnostic Output Solid State Auto Switch: Tie-rod Mounting Type D-F59F



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).



Auto Switch Specifications

PLC: Programmable Logic Controller

| D-F59F (With indicator light) | |
|-------------------------------|---|
| Auto switch model | D-F59F |
| Wiring type | 4-wire |
| Output type | NPN |
| Diagnostic output | Normal operation |
| Applicable load | IC circuit, 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 |
| 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 5 mA) |
| Leakage current | 100 μ A or less at 28 VDC |
| Indicator light | Operating range Red LED illuminates. Proper operating range Green LED illuminates. |
| Standard | CE/UKCA marking |

Oilproof Heavy-duty Lead Wire Specifications

| Auto switch model | | D-F59F |
|-----------------------------|-----------------------------------|---|
| Sheath | Outside diameter [mm] | ϕ 4 |
| | Number of cores | 4 cores (Brown/Blue/Black/Orange) |
| Insulator | Outside diameter [mm] | ϕ 1.29 |
| | Effective area [mm ²] | 0.3 |
| Conductor | Strand diameter [mm] | ϕ 0.08 |
| | Reference values | id state auto switch common specifications. |
| Minimum bending radius (mm) | Reference values | 24 |
| Lead wire lengths | | 24 |

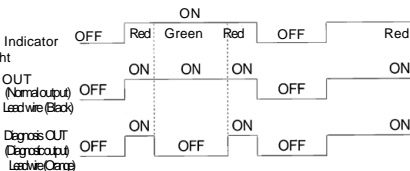
Weight

(g)

| Auto switch model | | D-F59F |
|-------------------|-------------|--------|
| Lead wire length | 0.5 m (Nil) | 22 |
| | 3 m (L) | 77 |
| | 5 m (Z) | 121 |

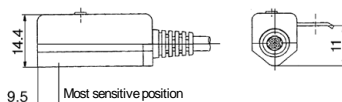
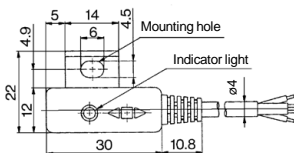
Diagnostic Output Operation

The diagnostic output signal is output within the red display area (where indicator light is light Red), and it is not output within the proper operating range (where indicator light is Green). When the auto switch detecting position is not adjusted, the diagnostic output becomes activated.



Dimensions

(mm)



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