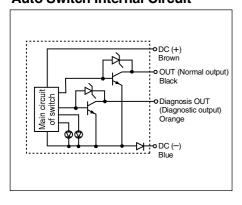
2-Color Indication Type with Diagnostic Output Solid State Auto Switch: Tie-rod Mounting Style **D-F59F**

Grommet

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



Auto Switch Internal Circuit



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 μA or less at 28 VDC						
Indicator light	Operating range Red LED illuminates. Proper operating range Green LED illuminates.						
Standard	CE marking						

• Lead wires — Oilproof heavy-duty vinyl cord, ø4, 0.2 mm2, 4 cores (Brown, Black, Orange, Blue), 0.5 m Note 1) Refer to page 1272 for solid state auto switch common specifications. Note 2) Refer to page 1272 for lead wire lengths.

Mass

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

Diagnostic Output Operation

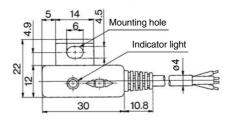
The diagnostic output signal is output within an unsteady detecting area (where indicator light is Red), and it is not output within the proper operating range (where indicator light is Green). When the auto switch detecting position is not adjusted, the diagnostic output becomes activated.

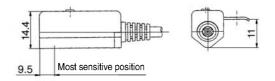
Indicator light	OFF	Red	Green	Red	OFF	Red
		ON	ON	ON		ON
OUT	OFF				OFF	
(Normal o	utput)	ON		ON		ON
Diagnosis OUT	OFF	JOIN	OFF	_ ON	OFF	ON
(Diagnost	c outpu	t)				

Dimensions

(mm)

(g)





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