

Made to Order Specifications: Solid State Switch With Pre-wired Connector

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1 With Pre-wired Connector

- Eliminates the harnessing work by cable with connector specifications
- Adopts global standardized connector (IEC947-5-2)
- IP67 construction



How to Order

D—M9N S A PC

Solid state switch
Standard part no.

* For the applicable auto switch model, refer to the table below.

Cable length

S	0.5 m
M	1.0 m
L	3.0 m

Note) L is available for the D-P5DW type only.

Connector model

A	M8—3 pin
B	M8—4 pin
D	M12—4 pin

Note) Type D is available for the D-P5DW type only.

Connector Specifications

Connector model	M8—3 pin	M8—4 pin	M12—4 pin
Pin arrangement			
Conformed standard	JIS C 4524, JIS C 4525, IEC 947-5-2, NECA 0402		
Impact resistance	300 m/s ²		
Enclosure	IP-67 (IEC529 standard)		
Insulation resistance	100 MΩ or more at 500 M VDC		
Withstand voltage	1500 VAC 1 minute (between contacts), Leak current 1 mA or less		

Applicable Auto Switch

Mounting	Function	Electrical entry	Applicable model	Lead wire length		
				0.5	1.0	3.0
Rail mounting style	—	Grommet (In-line)	F79, F7P, J79	●	●	—
		Grommet (Perpendicular)	F7NV, F7PV, F7BV	●	●	—
	2-color indication	Grommet (In-line)	F79W, F7PW, J79W	●	●	—
		Grommet (Perpendicular)	F7NWV, F7BWV	●	●	—
	With diagnostic	Grommet (In-line)	F79F	●	●	—
	Water resistant		F7BA	●	●	—
	With timer		F7NT	●	●	—
Magnetic field	P5DW		●	●	●	
Band mounting style	—	Grommet (In-line)	H7A1, H7A2, H7B	●	●	—
			G59, G5P, K59	●	●	—
	2-color indication		H7NW, H7PW, H7BW	●	●	—
			G59W, G5PW, K59W	●	●	—
	Diagnostic output		H7NF, G59F	●	●	—
	Water resistant		H7BA, G5BA	●	●	—
	With timer		G5NT	●	●	—
Wide detection	G5NB	●	●	—		
Tie-rod mounting style	—	Grommet (In-line)	F59, F5P, J59	●	●	—
			F59W, F5PW, J59W	●	●	—
	2-color indication		F59F	●	●	—
			F5BA	●	●	—
	With timer		F5NT	●	●	—

Mounting	Function	Electrical entry	Applicable model	Lead wire length		
				0.5	1.0	3.0
Direct mounting style	—	Grommet (In-line)	M5N, M5P, M5B	●	●	—
		Grommet (Perpendicular)	Y59A, Y7P, Y59B	●	●	—
		Grommet (In-line)	M9N, M9P, M9B	●	●	—
		Grommet (Perpendicular)	M9NV, M9PV, M9BV	●	●	—
	2-color indication	Grommet (In-line)	M5NW, M5PW, M5BW	●	●	—
		Grommet (Perpendicular)	Y7NW, Y7PW, Y7BW	●	●	—
		Grommet (In-line)	F9NW, F9PW, F9BW	●	●	—
		Grommet (Perpendicular)	F9NWV, F9PWV, F9BWV	●	●	—
	Water resistant	Grommet (In-line)	Y7BA, F9BA	●	●	—
	With timer	Grommet (In-line)	M5NT, M5PT	●	●	—
Rotary actuator	—	Grommet (In-line)	S791/2, S7P1/2, T791/2	●	●	—
		Grommet (In-line)	S991/2, S9P1/2, T991/2	●	●	—
		Grommet (Perpendicular)	S99V1/2, T99V1/2	●	●	—



M8—3 pin



M8—4 pin



M12—4 pin

Connector Pin Arrangement

Sensor type	Color distinction of lead wire				Meaning of contact number			
	1 pin	2 pin	3 pin	4 pin	1 pin	2 pin	3 pin	4 pin
DC 2-wire type	Brown	—	—	Blue	OUT (+)	—	—	OUT (—)
DC 2-wire, Non-polar type	—	—	Brown	Blue	—	—	OUT (±)	OUT (F)
DC 3-wire type	Brown	—	Blue	Black	DC (+)	—	DC (—)	OUT
DC 4-wire type	Brown	Orange	Blue	Black	DC (+)	Diagnostic output	DC (—)	OUT

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Dimensions

Connector model	
M8—3 pin 4 pin	
M12—4 pin	

Connection (Female side) Connector Cable

As the parts are not supplied from SMC, refer to the application examples listed in the below.
(For detail such as catalog availability, etc., please contact each manufacturer.)

Connector size	Number of pins	Manufacturer	Applicable series example
M8	3	Corrence Corporation	M8-3D
	4		M8-4D
			OMROM Corporation
M12		Corrence Corporation	VA-4D
		OMROM Corporation	XS2
		Yamatake-Honeywell Co., Ltd.	PA5-4I
	Hirose Electric Co., Ltd.	HR24	
	DKK Ltd.	CM01-8DP4S	