

Solid State Switch, Made to Order With Pre-wired Connector



- Eliminates harnessing work by using a cable with a pre-wired connector specification.
- Adopts global standardised connector (IEC947-5-2).
- IP67 construction



How to Order

D-M9N S A PC

Solid state switch standard model no.

* For applicable auto switch models, 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-P4DW type only.

Connector type

A	M8-3 pins
B	M8-4 pins
D	M12-4 pins

Note) Only D is available with the D-P4DW type.

Connector Specifications

Connector type	M8-3 pins	M8-4 pins	M12-4 pins
Pin arrangement			
Conformed standard	JIS C 4524, JIS C 4525, IEC 947-5-2, NECA 0402		
Impact resistance	300 m/s ²		
Enclosure	IP67 (IEC60529 standard)		
Insulation resistance	100 MΩ or more at 500 VDC Mega		
Withstand voltage	1500 VAC for 1 minute (between contacts), Leakage current 1 mA or less		

Applicable Auto Switches

Mounting	Function	Electrical entry	Applicable model	Lead wire length (m)			
				0.5	1.0	3.0	
Rail mounting style	—	Grommet (In-line)	F79, F7P, J79	●	●	—	
		Grommet (Perpendicular)	F7NV, F7PV, F7BV	●	●	—	
	2-colour indication	Grommet (In-line)	F79W, F7PW, J79W	●	●	—	
		Grommet (Perpendicular)	F7NWV, F7BWV	●	●	—	
	Water resistant	With diagnostic output	Grommet (In-line)	F79F	●	●	—
			Grommet (Perpendicular)	F7BA	●	●	—
			Grommet (Perpendicular)	F7BAV	●	●	—
Water resistant	With timer	Grommet (In-line)	F7NT	●	●	—	
		Grommet (Perpendicular)	P4DW	●	●	●	
Band mounting style	—	Grommet (In-line)	H7A1, H7A2, H7B	●	●	—	
			G59, G5P, K59	●	●	—	
	2-colour indication		H7NW, H7PW, H7BW	●	●	—	
			G59W, G5PW, K59W	●	●	—	
	Water resistant		Diagnostic output	H7NF, G59F	●	●	—
				H7BA, G5BA	●	●	—
				G5NT	●	●	—
Water resistant	With timer	G5NB	●	●	—		
		F59, F5P, J59	●	●	—		
Tie-rod mounting style	—	Grommet (In-line)	F59W, F5PW, J59W	●	●	—	
			F59F	●	●	—	
			F5BA	●	●	—	
			F5NT	●	●	—	

Mounting	Function	Electrical entry	Applicable model	Lead wire length (m)			
				0.5	1.0	3.0	
Direct mounting style	—	Grommet (In-line)	Y59A, Y7P, Y59B	●	●	—	
		Grommet (Perpendicular)	Y69A, Y7PV, Y69B	●	●	—	
		Grommet (In-line)	M9N, M9P, M9B	●	●	—	
		Grommet (Perpendicular)	M9NV, M9PV, M9BV	●	●	—	
		Grommet (In-line)	F8N, F8P, F8B	●	●	—	
		Grommet (In-line)	F6N, F6P, F6B	●	●	—	
	Normally closed	Water resistant	Grommet (In-line)	Y7G, Y7H	●	●	—
			Grommet (In-line)	F9G, F9H	●	●	—
			Grommet (In-line)	Y7NW, Y7PW, Y7BW	●	●	—
			Grommet (Perpendicular)	Y7NWV, Y7PWV, Y7BWV	●	●	—
2-colour indication	Water resistant	Grommet (In-line)	M9NW, M9PW, M9BW	●	●	—	
		Grommet (Perpendicular)	M9NWV, M9PWV, M9BWV	●	●	—	
		Grommet (In-line)	Y7BA	●	●	—	
Water resistant	Water resistant	Grommet (Perpendicular)	M9NA, M9PA, M9BA	●	●	—	
		Grommet (Perpendicular)	M9NAV, M9PAV, M9BAV	●	●	—	
Rotary actuator	—	Grommet (In-line)	S791/2, S7P1/2, T791/2	●	●	—	
		Grommet (Perpendicular)	S991/2, S9P1/2, T991/2	●	●	—	
Rotary actuator	—	Grommet (In-line)	S99V1/2, T99V1/2	●	●	—	
		Grommet (Perpendicular)	S99V1/2, T99V1/2	●	●	—	

With Pre-wired Connector



M8-3 pins



M8-4 pins



M12-4 pins

Connector Pin Arrangement

Sensor type	Colour distinction of lead wire				Meaning of contact number			
	1 pin	2 pins	3 pins	4 pins	1 pin	2 pins	3 pins	4 pins
DC 2-wire type	Brown	—	—	Blue	OUT (+)	—	—	OUT (-)
DC 2-wire, non-polar type	—	—	Brown	Blue	—	—	OUT ()	OUT ()
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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Impact resistance	300 m/s ²		
Enclosure	IP67 (IEC529 standard)		
Insulation resistance	100 MΩ or more at 500 VDC Mega		
Withstand voltage	1500 VAC for 1 minute (between contacts), Leak current 1 mA or less		

Dimensions

Connector type	
M8-3 pins 4 pins	
M12-4 pins	

Connection (Female Side) Connector Cable

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

Connector size	Number of pins	Manufacturer	Applicable series example
M8	3	Phoenix Contact	SAC-3P
		Corrence Corporation	M8-3D
		OMRON Corporation	M8-4D
M12	4	Phoenix Contact	SAC-4P
		Corrence Corporation	VA-4D
		OMRON Corporation	XS2
		Azbil Corp.	PA5-4I
		Hirose Electric Co., Ltd.	HR24
		DDK Ltd.	CM01-8DP4S