With Pre-wired Connector Solid State Auto Switch (Made to Order Specifications)

CE UK CA

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

1 With Pre-wired Connector

- Eliminates the harnessing work by cable with connector specifications
- Adopts global standardized connector (IEC61076-2)
- IP67 construction

How to Order

D–M9N S A PC

Solid state auto 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
Z	5.0 m

Connector model

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

Note) Type A is not selectable for the auto switch with diagnostic output.

Connector Specifications

Connector model	M8-3 pin	M8-4 pin	M12-4 pin
Pin arrangement			
Conformed standard	IEC61076-2-104		IEC61076-2-101
Impact resistance	300 m/s²		
Enclosure	Only with screw tightened IP67 (IEC60529 standard)		
Insulation resistance	100 MΩ or more at 500 VDC measured via megohmmeter		
Withstand voltage	1500 VAC 1 minute (between contacts), Leak current 1 mA or less		

Applicable Auto Switch

For details on the D-P3DWA series magnetic field resistant auto switch, refer to page 1342. And for details on the D-P4DW series, refer to page 1344.

2-wire

Mounting	Function	Applicable model
Rail mounting type	—	J79, F7BV
	2-color indicator	J79W, F7BWV
	Water resistant	F7BA, F7BAV
Band mounting type		H7B
		K59
	2-color indicator	H7BW
		K59W
	Water resistant	H7BA
		G5BA
Tie-rod mounting type		J59
	2-color indicator	J59W
	Water resistant	F5BA
Direct mounting type	—	Y59B, Y69B
		M9B, M9BV
		F8B
	Normally closed	M9BE, M9BEV
	2-color indicator	Y7BW, Y7BWV
		M9BW, M9BWV
	Water resistant	Y7BA
		M9BA, M9BAV
		M7BA
	Hygienic	F6B
Rotary actuator	—	T791/2
		T991/2, T99V1/2

3-wire

Mounting	Function	Applicable model
Rail mounting type	—	F79, F7P, F7NV, F7PV
	2-color indicator	F79W, F7PW, F7NWV
	With timer	F7NT
Band mounting type		H7A1, H7A2
		G59, G5P
	2-color indicator	H7NW, H7PW
		G59W, G5PW
	With timer	G5NT
Tie-rod mounting type		F59, F5P
	2-color indicator	F59W, F5PW
	With timer	F5NT
Direct mounting type	—	Y59A, Y7P, Y69A, Y7PV
		M9N, M9P, M9NV, M9PV
		F8N, F8P
	Normally closed	Y7G, Y7H
		F9G, F9H
		M9NE, M9PE, M9NEV, M9PEV
	2-color indicator	Y7NW, Y7PW, Y7NWV, Y7PWV
		M9NW, M9PW, M9NWV, M9PWV
	Water resistant	M9NA, M9NAV, M9PA, M9PAV
	Hygienic	F6N, F6P
Rotary actuator	—	S791/2, S7P1/2
		S991/2, S9P1/2, S99V1/2

4-wire

Mounting	Function	Applicable model
Rail mounting type	Direct mounting type	F79F
Band mounting type		H7NF
		G59F
Tie-rod mounting type		F59F

Note) M8-3 pins are not selectable for the 4-wire auto switch.

Connector pin arrangement

Sensor type	Meaning of contact number			
	1 pin	2 pin	3 pin	4 pin
2-wire	OUT(+)	—	—	OUT(−)
3-wire	DC(+)	—	DC(−)	OUT
4-wire	DC(+)	Diagnostic output	DC(−)	OUT

Note1) For details on the D-P3DWASC and D-P3DWASE, refer to page 1342. And for details on the D-P4DWSC and D-P4DWSE, refer to page 1344.
Note2) For details on the pin arrangement, refer to the pin arrangement in the connector specifications above.

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With Pre-wired Connector

M8-3 pin

Dimensions

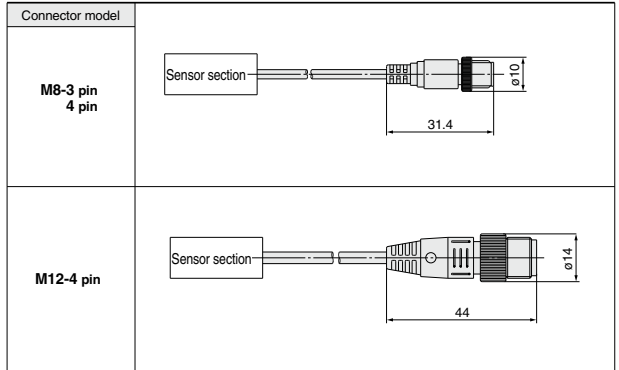| Connector model		
M8-3 pin 4 pin	Sensor section	ø10 31.4
M12-4 pin	Sensor section	ø14 44

M8-4 pin

M12-4 pin

Connection (Socket 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	OMRON Corporation	XS3□
		PHOENIX CONTACT GmbH & Co. KG	SAC-3P□
		Correns Corporation	M8-3D□
		TE Connectivity Ltd.	T40
		Hans Turck GmbH & Co. KG	PKG3M□
	4	OMRON Corporation	XS3□
		PHOENIX CONTACT GmbH & Co. KG	SAC-4P□
		Correns Corporation	M8-3D□
		TE Connectivity Ltd.	T40
		Hans Turck GmbH & Co. KG	PKG4M□
M12	4	OMRON Corporation	XS2□, XS5□
		PHOENIX CONTACT GmbH & Co. KG	SAC-4P□
		Correns Corporation	VA-4D□
		TE Connectivity Ltd.	T41
		Hans Turck GmbH & Co. KG	RKC4.4□
		Azbil Corporation	PA5-4I
		DDK Ltd.	CM02B

Weight for Connector Type

Part no.	Connector type	Weight
D-□□□APC	M8-3 pin	4 g
D-□□□BPC	M8-4 pin	4 g
D-□□□DPC	M12-4 pin	About 11 g

Made to Order Specifications: Solid State Auto Switch
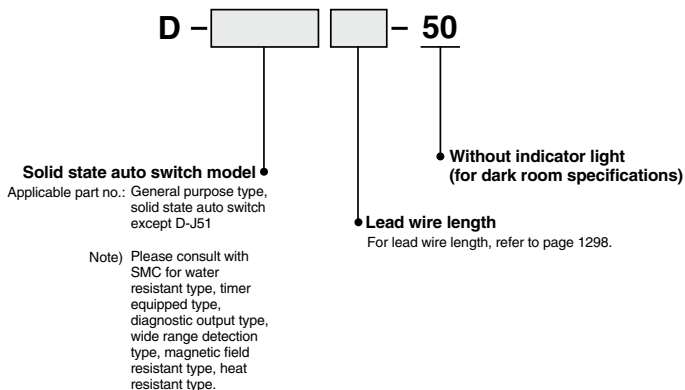## -50: Without Indicator Light (Dark room) Specifications
-61: Oilproof Flexible Heavy-duty Cord Specifications

2 Without Indicator Light (for dark room specifications)

Possible to use under the environment which hates a light.

$$D - \boxed{}\boxed{} - 50$$

Without indicator light (for dark room specifications)

Solid state auto switch model
Applicable part no.: General purpose type, solid state auto switch except D-J51

Note) Please consult with SMC for water resistant type, timer equipped type, diagnostic output type, wide range detection type, magnetic field resistant type, heat resistant type.

Lead wire length
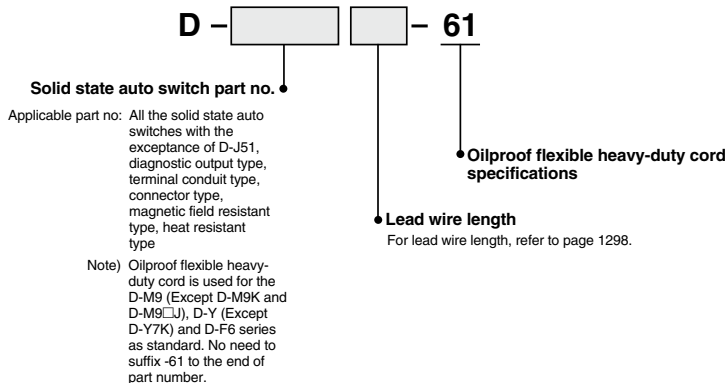For lead wire length, refer to page 1298.

Dimensions and specifications are common as standard products with the exception of no indicator light.

3 Oilproof Flexible Heavy-duty Cord Specifications

This is the product which uses a heavy-duty cord having flexible characteristics 5 times (SMC comparison) as strong as oilproof heavy-duty cord used in the standard products.

$$D - \boxed{}\boxed{} - 61$$

Solid state auto switch part no.
Applicable part no: All the solid state auto switches with the exceptance of D-J51, diagnostic output type, terminal conduit type, connector type, magnetic field resistant type, heat resistant type

Note) Oilproof flexible heavy-duty cord is used for the D-M9 (Except D-M9K and D-M9□J), D-Y (Except D-Y7K) and D-F6 series as standard. No need to suffix -61 to the end of part number.

Oilproof flexible heavy-duty cord specifications

Lead wire length
For lead wire length, refer to page 1298.

Specifications are the same as standard products with the exception of lead wire specifications.
Lead wire: For D-F8 type············ ø2.7, 0.15 mm^2, 3 cores (Brown, Blue, Black), 2 cores (Brown, Blue)
For other model nos.··················· ø3.4, 0.15 mm^2, 3 cores (Brown, Blue, Black), 2 cores (Brown, Blue)

Dimensions are identical with D-F5 type, G5 type, J59 type, K59 type. Lead wire diameter is changed from ø4 to ø3.4. In other series products, it is common as standard product's specifications.

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