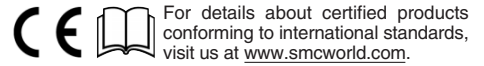


Made to Order Specifications: Solid State Switch With Pre-wired Connector



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) | F7NWW, F7BWW | ● | ● | — | |
| | With diagnostic | | 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 | — | | F59, F5P, J59 | ● | ● | — | |
| | 2-color indication | | F59W, F5PW, J59W | ● | ● | — | |
| | Diagnostic output | | F59F | ● | ● | — | |
| | Water resistant | | 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 | ● | ● | — | |
| | | | Y59A, Y7P, Y59B | ● | ● | — | |
| | | Grommet (Perpendicular) | Y69A, Y7PV, Y69B | ● | ● | — | |
| | | | M9N, M9P, M9B | ● | ● | — | |
| | 2-color indication | Grommet (In-line) | M9NV, M9PV, M9BV | ● | ● | — | |
| | | | M5NW, M5PW, M5BW | ● | ● | — | |
| | | Grommet (Perpendicular) | Y7NW, Y7PW, Y7BW | ● | ● | — | |
| | | | Y7NWW, Y7PWW, Y7BWW | ● | ● | — | |
| | | Water resistant | Grommet (In-line) | F9NW, F9PW, F9BW | ● | ● | — |
| | | | | F9NWW, F9PWW, F9BWW | ● | ● | — |
| With timer | | Y7BA, F9BA | ● | ● | — | | |
| Rotary actuator | — | Grommet (In-line) | S791/2, S7P1/2, T791/2 | ● | ● | — | |
| | | | S991/2, S9P1/2, T991/2 | ● | ● | — | |
| | | | S99V1/2, T99V1/2 | ● | ● | — | |

MHZ

MHF

MHL

MHR

MHK

MHS

MHC

MHT

MHY

MHW

MRHQ

Misc.

D-

20-

With Pre-wired Connector



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 |

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 | | |

Dimensions

| Connector model | Dimensions |
|-------------------|------------|
| 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 |
| | | OMRON Corporation | M8-4D |
| | | OMRON Corporation | XS3 |
| M12 | 4 | Corrence Corporation | VA-4D |
| | | OMRON Corporation | XS2 |
| | | Yamatake-Honeywell Co., Ltd. | PA5-4I |
| | | Hirose Electric Co., Ltd. | HR24 |
| | | DKK Ltd. | CM01-8DP4S |