

# Parallel Type Air Gripper/2-Finger Type

# MHS2 Series

ø16, ø20, ø25, ø32, ø40, ø50, ø63

## How to Order

### Bore size

ø16 to ø25 **MHS2 - 20D - M9BW** [ ] - [ ]

Number of fingers: 2 | 2 fingers

Bore size: 16 | 16 mm, 20 | 20 mm, 25 | 25 mm

Action: D | Double acting

Auto switch: Nil | Without auto switch (Built-in magnet), S | For the applicable auto switch model, refer to the table below.

Number of auto switches: Nil | 2 pcs., S | 1 pc.

Made to Order: Refer to page 577 for details.

### Applicable Auto Switches/Refer to pages 797 to 850 for further information on auto switches.

| Type                                | Special function              | Electrical entry | Indicator light | Wiring (Output) | Load voltage |         | Auto switch model |         | Lead wire length (m) <sup>1)</sup> |       |       | Pre-wired connector | Applicable load |
|-------------------------------------|-------------------------------|------------------|-----------------|-----------------|--------------|---------|-------------------|---------|------------------------------------|-------|-------|---------------------|-----------------|
|                                     |                               |                  |                 |                 | DC           | AC      | Perpendicular     | In-line | 0.5 (Nil)                          | 1 (M) | 3 (L) |                     |                 |
| Solid state auto switch             | —                             | Grommet          | Yes             | 3-wire (NPN)    | 24 V         | —       | M9NV              | M9N     | ●                                  | ●     | ○     | ○                   | Relay, PLC      |
|                                     |                               |                  |                 | 3-wire (PNP)    |              |         | M9PV              | M9P     | ●                                  | ●     | ○     | ○                   |                 |
|                                     |                               |                  |                 | 2-wire          |              |         | M9B               | M9B     | ●                                  | ●     | ○     | ○                   |                 |
|                                     |                               |                  |                 | 3-wire (NPN)    |              |         | M9NVW             | M9NW    | ●                                  | ●     | ○     | ○                   |                 |
|                                     |                               |                  |                 | 3-wire (PNP)    |              |         | M9PWW             | M9PW    | ●                                  | ●     | ○     | ○                   |                 |
|                                     |                               |                  |                 | 2-wire          |              |         | M9BWW             | M9BW    | ●                                  | ●     | ○     | ○                   |                 |
|                                     | Diagnosis (2-color indicator) | Grommet          | Yes             | 3-wire (NPN)    | 24 V         | —       | M9NAV**           | M9NA**  | ○                                  | ○     | ●     | ○                   | Relay, PLC      |
|                                     |                               |                  |                 | 3-wire (PNP)    |              |         | M9PAV**           | M9PA**  | ○                                  | ○     | ○     | ●                   |                 |
|                                     |                               |                  |                 | 2-wire          |              |         | M9BAV**           | M9BA**  | ○                                  | ○     | ○     | ○                   |                 |
|                                     |                               |                  |                 | 3-wire (NPN)    |              |         |                   |         | ○                                  | ○     | ○     | ○                   |                 |
|                                     |                               |                  |                 | 3-wire (PNP)    |              |         |                   |         | ○                                  | ○     | ○     | ○                   |                 |
|                                     |                               |                  |                 | 2-wire          |              |         |                   |         | ○                                  | ○     | ○     | ○                   |                 |
| Water resistant (2-color indicator) | Grommet                       | Yes              | 3-wire (NPN)    | 24 V            | —            | M9NAV** | M9NA**            | ○       | ○                                  | ●     | ○     | Relay, PLC          |                 |
|                                     |                               |                  | 3-wire (PNP)    |                 |              | M9PAV** | M9PA**            | ○       | ○                                  | ○     | ●     |                     |                 |
|                                     |                               |                  | 2-wire          |                 |              | M9BAV** | M9BA**            | ○       | ○                                  | ○     | ○     |                     |                 |
|                                     |                               |                  | 3-wire (NPN)    |                 |              |         |                   | ○       | ○                                  | ○     | ○     |                     |                 |
|                                     |                               |                  | 3-wire (PNP)    |                 |              |         |                   | ○       | ○                                  | ○     | ○     |                     |                 |
|                                     |                               |                  | 2-wire          |                 |              |         |                   | ○       | ○                                  | ○     | ○     |                     |                 |

\*\* Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance.

<sup>1)</sup> Lead wire length symbols: 0.5 m ..... Nil (Example) M9N  
 1 m ..... M (Example) M9NW  
 3 m ..... L (Example) M9NL  
 5 m ..... Z (Example) M9NZ

Note) When using the 2-color indicator type, please make the setting so that the indicator is lit in red to ensure the detection at the proper position of the air gripper.

### Bore size

ø32 to ø63 **MHS2 - 50D - M9BW** [ ] - [ ]

Number of fingers: 2 | 2 fingers

Bore size: 32 | 32 mm, 40 | 40 mm, 50 | 50 mm, 63 | 63 mm

Action: D | Double acting

Auto switch: Nil | Without auto switch (Built-in magnet), S | For the applicable auto switch model, refer to the table below.

Number of auto switches: Nil | 2 pcs., S | 1 pc.

Made to Order: Refer to page 577 for details.

### Applicable Auto Switches/Refer to pages 797 to 850 for further information on auto switches.

| Type                                | Special function              | Electrical entry | Indicator light | Wiring (Output) | Load voltage |         | Auto switch model |         | Lead wire length (m) <sup>1)</sup> |       |       | Pre-wired connector | Applicable load |
|-------------------------------------|-------------------------------|------------------|-----------------|-----------------|--------------|---------|-------------------|---------|------------------------------------|-------|-------|---------------------|-----------------|
|                                     |                               |                  |                 |                 | DC           | AC      | Perpendicular     | In-line | 0.5 (Nil)                          | 1 (M) | 3 (L) |                     |                 |
| Solid state auto switch             | —                             | Grommet          | Yes             | 3-wire (NPN)    | 24 V         | —       | M9NV              | M9N     | ●                                  | ●     | ○     | ○                   | Relay, PLC      |
|                                     |                               |                  |                 | 3-wire (PNP)    |              |         | M9PV              | M9P     | ●                                  | ●     | ○     | ○                   |                 |
|                                     |                               |                  |                 | 2-wire          |              |         | M9B               | M9B     | ●                                  | ●     | ○     | ○                   |                 |
|                                     |                               |                  |                 | 3-wire (NPN)    |              |         | M9NVW             | M9NW    | ●                                  | ●     | ○     | ○                   |                 |
|                                     |                               |                  |                 | 3-wire (PNP)    |              |         | M9PWW             | M9PW    | ●                                  | ●     | ○     | ○                   |                 |
|                                     |                               |                  |                 | 2-wire          |              |         | M9BWW             | M9BW    | ●                                  | ●     | ○     | ○                   |                 |
|                                     | Diagnosis (2-color indicator) | Grommet          | Yes             | 3-wire (NPN)    | 24 V         | —       | M9NAV**           | M9NA**  | ○                                  | ○     | ●     | ○                   | Relay, PLC      |
|                                     |                               |                  |                 | 3-wire (PNP)    |              |         | M9PAV**           | M9PA**  | ○                                  | ○     | ○     | ●                   |                 |
|                                     |                               |                  |                 | 2-wire          |              |         | M9BAV**           | M9BA**  | ○                                  | ○     | ○     | ○                   |                 |
|                                     |                               |                  |                 | 3-wire (NPN)    |              |         |                   |         | ○                                  | ○     | ○     | ○                   |                 |
|                                     |                               |                  |                 | 3-wire (PNP)    |              |         |                   |         | ○                                  | ○     | ○     | ○                   |                 |
|                                     |                               |                  |                 | 2-wire          |              |         |                   |         | ○                                  | ○     | ○     | ○                   |                 |
| Water resistant (2-color indicator) | Grommet                       | Yes              | 3-wire (NPN)    | 24 V            | —            | M9NAV** | M9NA**            | ○       | ○                                  | ●     | ○     | Relay, PLC          |                 |
|                                     |                               |                  | 3-wire (PNP)    |                 |              | M9PAV** | M9PA**            | ○       | ○                                  | ○     | ●     |                     |                 |
|                                     |                               |                  | 2-wire          |                 |              | M9BAV** | M9BA**            | ○       | ○                                  | ○     | ○     |                     |                 |
|                                     |                               |                  | 3-wire (NPN)    |                 |              |         |                   | ○       | ○                                  | ○     | ○     |                     |                 |
|                                     |                               |                  | 3-wire (PNP)    |                 |              |         |                   | ○       | ○                                  | ○     | ○     |                     |                 |
|                                     |                               |                  | 2-wire          |                 |              |         |                   | ○       | ○                                  | ○     | ○     |                     |                 |

\*\* Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance.

<sup>1)</sup> Lead wire length symbols: 0.5 m ..... Nil (Example) M9NV  
 1 m ..... M (Example) M9NVW  
 3 m ..... L (Example) M9NVL  
 5 m ..... Z (Example) M9NVZ

Note 1) When using the 2-color indicator type, please make the setting so that the indicator is lit in red to ensure the detection at the proper position of the air gripper.

Note 2) When ordering the air gripper with auto switch, auto switch mounting brackets are supplied with the air gripper having a bore size of ø32 to ø63.

Note 3) When ordering the auto switch separately, auto switch mounting brackets (BMG2-012) are required.