

Auto Switch Mounting Brackets: Part Nos.

| Auto switch model | Bore size (mm) | | | |
|--|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| | ø20 | ø25 | ø32 | ø40 |
| D-M9□ D-M9□W D-A9□ | Note 1) ①BMA2-020 ②BJ3-1 | Note 1) ①BMA2-025 ②BJ3-1 | Note 1) ①BMA2-032 ②BJ3-1 | Note 1) ①BMA2-040 ②BJ3-1 |
| D-H7□/H7□W/H7NF D-H7BAL/C7□/C80 D-C73C/C80C | BMA2-020 | BMA2-025 | BMA2-032 | BMA2-040 |
| D-G5□/G5□W/G59F D-G5BAL/G5NTL D-B5□/B64/B59W | BA-01 | BA-02 | BA-32 | BA-04 |
| D-G39/K39 = A3□/A44 | BD1-01M | BD1-02M | BD1-02 | BD1-04M |

Note 1) Two types of auto switch mounting bracket are used as a set.

[Stainless steel mounting screw kits]

The following stainless mounting screw kits are available for use depending on the operating environment.

(Auto switch mounting brackets are not included. Order separately.)

BBA3: D-G5, K5, B5, B6

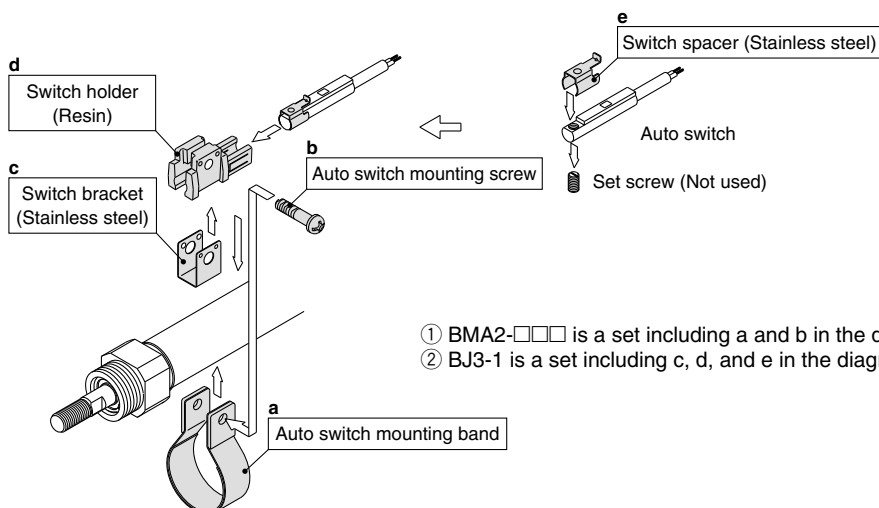
BBA4: D-C7, C8, H7

Note) Refer to the table below for details on BBA3, BBA4.

When D-H7BAL and G5BAL auto switches are shipped mounted on a cylinder, the above stainless steel screws are used. Also when switches are shipped separately, BBA3, BBA4 are included.

Stainless mounting screw kit details

| Part no. | Contents | | | Applicable auto switch mounting bracket part nos. | Applicable auto switches |
|----------|-----------------------------|----------------|------|--|--------------------------|
| | Description | Size | Pcs. | | |
| BBA3 | Auto switch mounting screws | M4 x 0.7 x 22L | 1 | BA-01, BA-02, BA-32, BA-04, BA-05, BA-06, BA-08, BA-10 | D-B5, B6 D-G5, K5 |
| | | | | BA2-020, BA2-025, BA2-032, BA2-040 | |
| | | | | BA5-050, BHN2-025, BSG1-032 | |
| | | | | BH2-040, BH2-050, BH2-080, BH2-100 | |
| | | | | BAF-32, BAF-04, BAF-05, BAF-06, BAF-08, BAF-10 | |
| BBA4 | Auto switch mounting screws | M3 x 0.5 x 14L | 1 | BJ2-006, BJ2-010, BJ2-016 | D-C7, C8 D-H7 |
| | | | | BM2-020, BM2-025, BM2-032, BM2-040 | |
| | | | | BMA2-020, BMA2-025, BMA2-032, BMA2-040, BMA2-050, BMA2-063 | |
| | | | | BHN3-025, BHN3-032, BHN3-040 | |



- ① BMA2-□□□ is a set including a and b in the diagram.
② BJ3-1 is a set including c, d, and e in the diagram.

Besides the models listed in “How to Order,” the following auto switches are applicable.
Refer to pages 347 to 406 for detailed auto switch specifications.

| Auto switch type | Part no. | Electrical entry | Features |
|------------------|--------------------|-------------------|---|
| Solid state | D-H7A1, H7A2, H7B | Grommet (in-line) | — |
| | D-G59, G5P, K59 | | Diagnostic indication (2-color display) |
| | D-H7NW, H7PW, H7BW | | Water resistant (2-color display) |
| | D-G59W, G5PW, K59W | | With timer |
| | D-G5BAL | | Diagnostic output (2-color display) |
| | D-G5NTL | | — |
| | D-G59F | | Without indicator light |
| Reed | D-C73, C76, B53 | Grommet (in-line) | — |
| | D-C80 | | Without indicator light |

* Solid state auto switches are also available with pre-wired connector. Refer to pages 389 and 390 for details.

* Normally closed (N.C. = b contact), solid state auto switches (D-F9G, F9H) are also available. For details, refer to page 365.

Operating Range

CH2E

(mm)

| Auto switch model | Bore size (mm) | | | | | |
|--|----------------|------|------|------|------|------|
| | 32 | 40 | 50 | 63 | 80 | 100 |
| D-M9□/M9□V D-M9□W/M9□WV D-M9□AL/M9□AVL | — | 5.5 | 6 | 7 | 5.5 | 6.5 |
| D-F5□/J5□/F59F D-F5□W/J59W D-F5BAL/F5NTL | 4.5 | 4 | 4.5 | 4.5 | 4.5 | 4.5 |
| D-G5□/K59/G59F D-G5□W/K59W D-G5BAL/G5NTL | 4.5 | 5 | 5 | — | 6.5 | 6.5 |
| D-G39/K39 | — | 10 | 10 | 10.5 | 9.5 | 9.5 |
| D-A9□/A9□V | — | — | — | — | — | — |
| D-A5□/A6□ | 8 | 8.5 | 9.5 | 9.5 | 10 | 11 |
| D-A59W | 12 | 13 | 13.5 | 14.5 | 14.5 | 15.5 |
| D-B5□/B64 | 9.5 | 10.5 | 11 | 12.5 | 13 | 14.5 |
| D-B59W | 11 | 12 | 13 | 14 | 14 | 15 |
| D-A3□/A44 | — | 9.5 | 10 | 11 | 11 | 12 |

CH2H

(mm)

| Auto switch model | Bore size (mm) | | | | | |
|--|----------------|------|------|------|------|------|
| | 32 | 40 | 50 | 63 | 80 | 100 |
| D-M9□/M9□V D-M9□W/M9□WV D-M9□AL/M9□AVL | — | 5.5 | 6 | 7 | 5.5 | 6.5 |
| D-F5□/J5□/F59F D-F5□W/J59W D-F5BAL/F5NTL | 4.5 | 4 | 4.5 | 4.5 | 4.5 | 4.5 |
| D-G5□/K59/G59F D-G5□W/K59W D-G5BAL/G5NTL | 4.5 | 5 | 5 | — | 6.5 | 6.5 |
| D-G39/K39 | — | 10 | 10 | 10.5 | 9.5 | 9.5 |
| D-A9□/A9□V | — | — | — | — | — | — |
| D-A5□/A6□ | 8 | 8.5 | 9.5 | 9.5 | 10 | 11 |
| D-A59W | 12 | 13 | 13.5 | 14.5 | 14.5 | 15.5 |
| D-B5□/B64 | 9.5 | 10.5 | 11 | 12.5 | 13 | 14.5 |
| D-B59W | 11 | 12 | 13 | 14 | 14 | 15 |
| D-A3□/A44 | — | 9.5 | 10 | 11 | 11 | 12 |

CH2F

(mm)

| Auto switch model | Bore size (mm) | | | | | |
|--|----------------|------|------|------|------|------|
| | 32 | 40 | 50 | 63 | 80 | 100 |
| D-M9□/M9□V D-M9□W/M9□WV D-M9□AL/M9□AVL | — | 5 | 5 | 5.5 | 5 | 5 |
| D-F5□/J5□/F59F D-F5□W/J59W D-F5BAL/F5NTL | 4.5 | 4 | 4.5 | 4.5 | 4.5 | 4.5 |
| D-G5□/K59/G59F D-G5□W/K59W D-G5BAL/G5NTL | 4.5 | 5 | 5 | — | 6.5 | 6.5 |
| D-G39/K39 | — | 10.5 | 11 | 11.5 | 11.5 | 12.5 |
| D-A9□/A9□V | — | 8.5 | 8.5 | 9.5 | 9.5 | 10.5 |
| D-A5□/A6□ | 8 | 8.5 | 9.5 | 9.5 | 10 | 11 |
| D-A59W | 12 | 13 | 13.5 | 14.5 | 14.5 | 15.5 |
| D-B5□/B64 | 9.5 | 10.5 | 11 | 12.5 | 13 | 14.5 |
| D-B59W | 11 | 12 | 13 | 14 | 14 | 15 |
| D-A3□/A44 | — | 9.5 | 10 | 11 | 11 | 12 |

Note 1) Auto switch models D-G39□, K39□, A3□, and A44 cannot be mounted on bore size ø32 cylinders.

Note 2) Auto switch models D-A9□, and A9□V cannot be mounted on cylinders with bore sizes CHD2Eø32 to ø100, CHD2Hø32 to ø100, and CHD2Fø32.

* Since this is a guideline including hysteresis, not meant to be guaranteed. (Assuming approximately ±30% dispersion.)
There may be the case it will vary substantially depending on an ambient environment.

Auto Switch Mounting Brackets: Part Nos.

<Tie rod mounting>

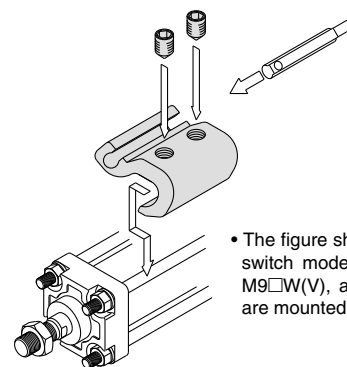
| Cylinder model | Auto switch model | Bore size (mm) | | | | | |
|----------------|---|----------------|---------|---------|---------|---------|---------|
| | | ø32 | ø40 | ø50 | ø63 | ø80 | ø100 |
| CH2E/H/F | D-M9□/M9□V D-M9□W/M9□WV D-M9□AL/M9□AVL D-A9□/A9□V (Note) | BA7-063 | BA7-063 | BA7-063 | BA7-080 | BS5-160 | BS5-180 |
| | D-F5□/J5□ D-F5□W/J59W D-F5BAL/F59F/F5NTL D-A5□/A6□/A59W | BT-06 | BT-06 | BT-06 | BT-08 | BT-16 | BT-18 |

<Band mounting>

| Cylinder model | Auto switch model | Bore size (mm) | | | | | |
|----------------|--|----------------|---------|---------|---------|---------|---------|
| | | ø32 | ø40 | ø50 | ø63 | ø80 | ø100 |
| CH2E | D-G39/K39 D-A3□/A44 | — | BD1-04M | BD1-05M | BD1-06M | BD1-08M | BD1-10M |
| | D-G5□/K59 D-G5□W/K59W D-G5BAL/G59F/G5NTL D-B5□/B64/B59W | BA-32 | BA-04 | BA-05 | BA-06 | BA-08 | BA-10 |
| CH2H | D-G39/K39 D-A3□/A44 | — | BD1-04M | BD1-05M | BD1-06M | BH1-080 | BH1-100 |
| | D-G5□/K59 D-G5□W/K59W D-G5BAL/G59F/G5NTL D-B5□/B64/B59W | BGS1-032 | BH2-040 | BH2-050 | BA-06 | BH2-080 | BH2-100 |
| CH2F | D-G39/K39 D-A3□/A44 | — | BDS-04M | BDS-05M | BDS-06M | BDS-08M | BDS-10M |
| | D-G5□/K59 D-G5□W/K59W D-G5BAL/G59F/G5NTL D-B5□/B64/B59W | BAF-32 | BAF-04 | BAF-05 | BAF-06 | BAF-08 | BAF-10 |

Note 1) Auto switch models D-G39□, K39□, A3□, and A44 cannot be mounted on CH2E, F, and Hø32 bore sized cylinders.

Note 2) Auto switch models D-A9□ and A9□V cannot be mounted on CHD2Eø32 to ø100, CHD2Hø32 to ø100, and CHD2Fø32 bore sized cylinders.



• The figure shows how auto switch models, D-M9□(V), M9□W(V), and M9□A(V)L are mounted.

[Stainless steel mounting screw kits]

The following stainless steel mounting screw kits are available for use depending on the operating environment. (Switch mounting bands are not included and should be ordered separately.)

BBA1 : D-F5, J5, A5, and A6

BBA3 : D-G5, K5, B5, and B6

Note 2) For details on BBA1 and BBA3, refer to page 296.

When D-F5BAL, G5BAL switches are shipped mounted on a cylinder, the above stainless steel screws are used. Also, when switches are shipped separately, BBA1, BBA3 is included.

Note 3) When using the auto switch model, D-M9□A(V), do not use the cast iron set screw included with the auto switch mounting bracket (BA7-□□□, BS5-□□□). Instead, order a separate stainless steel mounting screw kit, and use it after selecting the M4 x 6L stainless steel set screw included in BBA1.