

Auto Switch Mounting Brackets: Part Nos.

Auto switch models	Bore size (mm)			
	ø20	ø25	ø32	ø40
D-M9□ M9□W D-A9□	Note) ①BMA2-020 ②BJ3-1	Note) ①BHN3-025 ②BJ3-1	Note) ①BHN3-032 ②BJ3-1	Note) ①BHN3-040 ②BJ3-1
D-H7□/H7□W/H7NF D-H7BAL/C7□/C80 D-C73C/C80C	BMA2-020	BHN3-025	BHN3-032	BHN3-040
D-G5□/G5□W/G59F D-G5BAL/G5NTL D-B5□/B64/B59W	BA-01	BHN2-025	BGS1-032	BH2-040
D-G39/K39/A3□/A44	BD1-01M	BD1-02M	BHN1-032	BDS-04M

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

[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.)

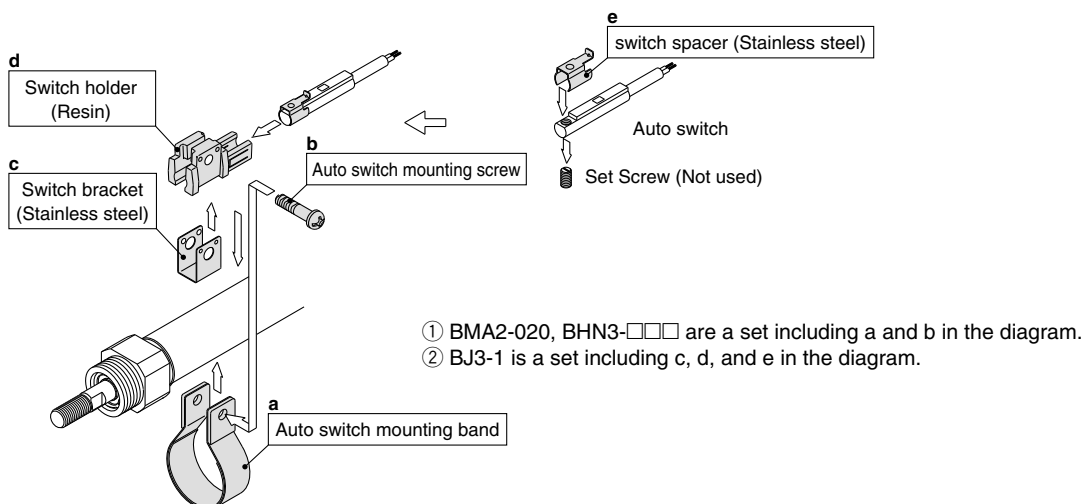
BBA3: D-B5, D-B6, D-G5, and D-K5

BBA4: D-C7, D-C8, D-H7

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

Stainless steel mounting screw kit details.

Part no.	Contents			Applicable auto switch mounting bracket part nos.	Applicable auto switches
	Description	size	pcs.		
BBA3	Auto switch mounting screw set	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	
				BJ2-006, BJ2-010, BJ2-016	
BBA4	Auto switch mounting screw set	M3 x 0.5 x 14L	1	BM2-020, BM2-025, BM2-032, BM2-040	D-C7, C8 D-H7
				BMA2-020, BMA2-025, BMA2-032, BMA2-040, BMA2-050, BMA2-063	
				BHN3-025, BHN3-032, BHN3-040	



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		With 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>

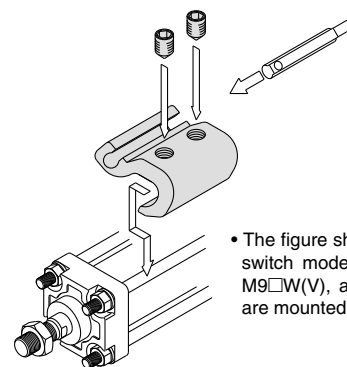
Cylinder model	Auto switch model	Bore size (mm)					
		ø32	ø40	ø50	ø63	ø80	ø100
CH2E/H/F	D-M9□/M9□V D-M9□W/M9□WV D-M9□AL/M9□AVL D-A9□/A9□V (Note)	BA7-063	BA7-063	BA7-063	BA7-080	BS5-160	BS5-180
	D-F5□/J5□ D-F5□W/J59W D-F5BAL/F59F/F5NTL D-A5□/A6□/A59W	BT-06	BT-06	BT-06	BT-08	BT-16	BT-18

<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.