

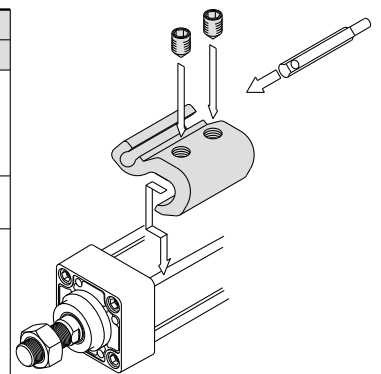
**Minimum Auto Switch Mounting Stroke: Center Trunnion Type**

n: No. of auto switches (mm)								
Auto switch model	No. of auto switches	Center trunnion						
		ø32	ø40	ø50	ø63	ø80	ø100	ø125
D-Y7BAL	2 (Different surfaces, same surface) 1	85	90		100	105	110	115
	n	$85 + 45 \frac{(n-4)}{2}$ (n = 4, 8, 12, 16...)	$90 + 45 \frac{(n-4)}{2}$ (n = 4, 8, 12, 16...)		$100 + 45 \frac{(n-4)}{2}$ (n = 4, 8, 12, 16...)	$105 + 45 \frac{(n-4)}{2}$ (n = 4, 8, 12, 16...)	$110 + 45 \frac{(n-4)}{2}$ (n = 4, 8, 12, 16...)	$115 + 45 \frac{(n-4)}{2}$ (n = 4, 8, 12, 16...)
D-P4DWL	2 (Different surfaces, same surface) 1	120		130		140		150
	n	$120 + 65 \frac{(n-4)}{2}$ (n = 4, 8, 12, 16...)		$130 + 65 \frac{(n-4)}{2}$ (n = 4, 8, 12, 16...)		$140 + 65 \frac{(n-4)}{2}$ (n = 4, 8, 12, 16...)		$150 + 65 \frac{(n-4)}{2}$ (n = 4, 8, 12, 16...)

n: No. of auto switches (mm)

**Auto Switch Mounting Bracket: Part No.**

Auto switch model	Bore size (mm)						
	ø32	ø40	ø50	ø63	ø80	ø100	ø125
<b>D-A9□/A9□V</b> <b>D-M9□/M9□V</b> <b>D-M9□W/M9□WV</b> <b>D-M9□AL/M9□AVL</b>	BMB5-032	BMB5-032	BA7-040	BA7-040	BA7-063	BA7-063	BA7-080
<b>D-A3□/A44</b> <b>D-G39/K39</b>	BMB2-032	BMB2-040	BMB1-050	BMB1-063	BMB1-080	BMB1-100	BS1-125
<b>D-A5□/A6□</b> <b>D-A59W</b> <b>D-F5□/J5□</b> <b>D-F5□W/J59W</b> <b>D-F59F</b> <b>D-F5BAL</b> <b>D-F5NTL</b>	BT-03	BT-03	BT-05	BT-05	BT-06	BT-06	BT-08
<b>D-P4DWL</b>	BMB3T-040	BMB3T-040	BMB3T-050	BMB3T-050	BMB3T-080	BMB3T-080	BAP2T-080
<b>D-Z7□/Z80</b> <b>D-Y59□/Y69□</b> <b>D-Y7P/Y7PV</b> <b>D-Y7□W</b> <b>D-Y7□WV</b> <b>D-Y7BAL</b>	BMB4-032	BMB4-032	BMB4-050	BMB4-050	BA4-063	BA4-063	BA4-080



The figure shows the mounting example for D-A9□(V)/M9□(V)/M9□W(V)/M9□A(V)L.

**[Stainless Steel Mounting Screw Kit]**

The following set of stainless steel mounting screws (including set screws) is available. Use them in accordance with the operating environment. (Since auto switch brackets are not included, order them separately.)

BBA1: For D-A5/A6/F5/J5 types

Note 1) Refer to page 1365 for the details of BBA1.

The above stainless steel screws are used when a cylinder is shipped with D-F5BAL type auto switches.

When only a switch is shipped independently, BBA1 is attached.

Note 2) When using D-M9□A(V)L/Y7BAL, do not use the steel set screws which is included with the auto switch mounting brackets above (BMB5-032, BA7-□□□, BMB4-□□□, BA4-□□□). Order a stainless steel screw set (BBA1) separately, and select and use the M4 x 6L stainless steel set screws included in the BBA1.

In addition to the auto switches listed above, the following auto switches are also available.  
Refer to pages 1263 to 1371 for the detailed specifications.

Auto switch type	Part no.	Electrical entry (Entry direction)	Features
<b>Reed auto switch</b>	D-A93V, A96V	Grommet (perpendicular)	—
	D-A90V		Without indicator light
	D-A53, A56, Z73, Z76	Grommet (in-line)	—
	D-A67, Z80		Without indicator light
<b>Solid state auto switch</b>	D-M9NV, M9PV, M9BV	Grommet (perpendicular)	—
	D-Y69A, Y69B, Y7PV		—
	D-M9NWV, M9PWV, M9BWV		Diagnostic indication (2-color)
	D-Y7NWV, Y7PWV, Y7BWV		Water resistant (2-color indication)
	D-M9NAVL, M9PAVL, M9BAVL	Grommet (in-line)	—
	D-F59, F5P, J59		—
	D-Y59A, Y59B, Y7P		Diagnostic indication (2-color)
	D-F59W, F5PW, J59W		Water resistant (2-color indication)
	D-Y7NW, Y7PW, Y7BW		With timer
	D-F5BAL, Y7BAL		—
	D-F5NTL		—
	D-P5DWL		Magnetic field resistant (2-color indication)

\* For solid state switches, auto switches with a pre-wired connector are also available. Refer to pages 1328 and 1329 for details.

\* Normally closed (NC = b contact) solid state auto switches (D-F9G/F9H/Y7G/Y7H types) are also available. Refer to page 1290 and 1292 for details.

**CJ1****CJP****CJ2****CM2****CG1****MB****MB1****CA2****CS1****CS2****D-□****-X□**Individual  
**-X□**Technical  
data