

Mechanically Jointed Rodless Cylinder Basic Type

25A-MY1B Series

∅16, ∅20, ∅25, ∅32, ∅40, ∅50, ∅63



How to Order

Ordering example: **∅16, ∅20, ∅50, ∅63** **25A-MY1B20** **300** **M9BW**

Ordering example: **∅25, ∅32, ∅40** **25A-MY1B25** **300** **Z-M9BW**

Series compatible with secondary batteries

Basic type

Bore size

16	16 mm
20	20 mm
25	25 mm
32	32 mm
40	40 mm
50	50 mm
63	63 mm

Port thread type

Symbol	Type	Bore size
Nil	M5	∅16, ∅20
	Rc	∅25, ∅32, ∅40 ∅50, ∅63
TN	NPT	
TF	G	

Piping

Nil	Standard type
G	Centralized piping type

Number of auto switches

Nil	2
S	1
n	n

Auto switch

Nil	Without auto switch (Built-in magnet)
-----	---------------------------------------

* Applicable auto switches vary depending on the bore size. Select an applicable one referring to [page 205](#).

Cylinder stroke [mm]

Bore size	Standard stroke*	Long stroke	Maximum manufacturable stroke
16	100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000	Strokes of 2001 to 3000 mm (1 mm increments) exceeding the standard stroke	3000
20, 25, 32, 40, 50, 63	* The stroke can be manufactured in 1 mm increments from 1 mm stroke.	Strokes of 2001 to 5000 mm (1 mm increments) exceeding the standard stroke	5000

Ordering example

* Long stroke can be ordered the same as the standard stroke. 25A-MY1B20-3000L-M9BW

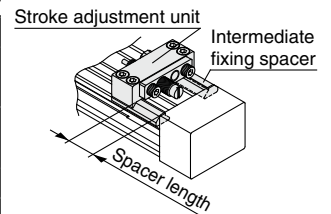
* Please be advised that with a stroke of 49 mm or less, there are cases where auto switch mounting is not possible, and the performance of the air cushion may decline.

For ∅16 to ∅40

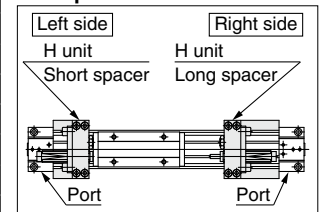
Stroke adjustment unit symbol

		Right side stroke adjustment unit									
		Without unit	A: With adjustment bolt			L: With low load shock absorber + Adjustment bolt			H: With high load shock absorber + Adjustment bolt		
			With short spacer	With long spacer	With short spacer	With long spacer	With short spacer	With long spacer	With short spacer	With long spacer	
Left side stroke adjustment unit	Without unit	Nil	SA	SA6	SA7	SL	SL6	SL7	SH	SH6	SH7
	A: With adjustment bolt	AS	A	AA6	AA7	AL	AL6	AL7	AH	AH6	AH7
	With short spacer	A6S	A6A	A6	A6A7	A6L	A6L6	A6L7	A6H	A6H6	A6H7
With long spacer	A7S	A7A	A7A6	A7	A7L	A7L6	A7L7	A7H	A7H6	A7H7	
L: With low load shock absorber + Adjustment bolt	Without unit	LS	LA	LA6	LA7	L	LL6	LL7	LH	LH6	LH7
	With short spacer	L6S	L6A	L6A6	L6A7	L6L	L6	L6L7	L6H	L6H6	L6H7
	With long spacer	L7S	L7A	L7A6	L7A7	L7L	L7L6	L7	L7H	L7H6	L7H7
H: With high load shock absorber + Adjustment bolt	Without unit	HS	HA	HA6	HA7	HL	HL6	HL7	H	HH6	HH7
	With short spacer	H6S	H6A	H6A6	H6A7	H6L	H6L6	H6L7	H6H	H6	H6H7
	With long spacer	H7S	H7A	H7A6	H7A7	H7L	H7L6	H7L7	H7H	H7H6	H7

Stroke adjustment unit mounting diagram



Example of H6H7 attachment



* Spacers are used to fix the stroke adjustment unit at an intermediate stroke position.

* The 25A-MY1B50 and 63 are not available with the stroke adjustment unit.

* The stroke adjustment unit H unit is not available for the 25A-MY1B16.

* The 25A- series specifications and dimensions are the same as those of the standard model. [Click here for details.](#)

25A- Series

Applicable Auto Switches

Applicable Cylinder Series

Type	Special function	Electrical entry	Indicator light	Auto switches					Air cylinders														
				Wiring (Output)	Electrical entry direction	Auto switch model	Lead wire length [m]				Pre-wired connector	CDJP2	CD(B)J2 CDJ2K	CDM2	CD(B)G1	MDB	CDA2						
							0.5 Nil	1 M	3 L	5 Z								ø4 to ø16	ø10, ø16	ø20 to ø40	ø20 to ø63	ø80, ø100	ø32 to ø100
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	In-line	D-M9N-900	●	●	●	○	—	●	●	●	●	—	●	●					
				3-wire (PNP)		D-M9P-900	●	●	●	○	—	●	●	●	●	—	●	●					
				2-wire		D-M9B-900	●	●	●	○	—	●	●	●	●	—	●	●					
				3-wire (NPN)	Perpendicular	D-M9NV-900	●	●	●	○	—	●	—	—	—	—	●	●					
				3-wire (PNP)		D-M9PV-900	●	●	●	○	—	●	—	—	—	—	●	●					
				2-wire		D-M9BV-900	●	●	●	○	—	●	—	—	—	—	●	●					
				Diagnostic indication (2-color indicator)	—	Grommet	Yes	3-wire (NPN)	In-line	D-M9NW-900	●	●	●	○	—	●	●	●	—	●	●		
								3-wire (PNP)		D-M9PW-900	●	●	●	○	—	●	●	●	—	●	●		
								2-wire		D-M9BW-900	●	●	●	○	○	●	●	●	—	●	●		
								3-wire (NPN)	Perpendicular	D-M9NVV-900	●	●	●	○	—	●	—	—	—	—	●	●	
								3-wire (PNP)		D-M9PVV-900	●	●	●	○	—	●	—	—	—	—	●	●	
								2-wire		D-M9BVV-900	●	●	●	○	○	●	—	—	—	—	●	●	
	—	—	Grommet	Yes	3-wire (NPN)	In-line	D-Y59A-900	●	●	●	○	—	—	—	—	—	—	—					
					3-wire (PNP)		D-Y7P-900	●	●	●	○	—	—	—	—	—	—	—					
					2-wire		D-Y59B-900	●	●	●	○	—	—	—	—	—	—	—					
					3-wire (NPN)	Perpendicular	D-Y69A-900	●	●	●	○	—	—	—	—	—	—	—					
					3-wire (PNP)		D-Y7PV-900	●	●	●	○	—	—	—	—	—	—	—					
					2-wire		D-Y69B-900	●	●	●	○	—	—	—	—	—	—	—					
	Diagnostic indication (2-color indicator)	—	Grommet	Yes	3-wire (NPN)	In-line	D-Y7NW-900	●	●	●	○	—	—	—	—	—	—	—					
					3-wire (PNP)		D-Y7PW-900	●	●	●	○	—	—	—	—	—	—	—					
					2-wire		D-Y7BW-900	●	●	●	○	—	—	—	—	—	—	—					
					3-wire (NPN)	Perpendicular	D-Y7NVV-900	●	●	●	○	—	—	—	—	—	—	—					
					3-wire (PNP)		D-Y7PVV-900	●	●	●	○	—	—	—	—	—	—	—					
					2-wire		D-Y7BVV-900	●	●	●	○	—	—	—	—	—	—	—					
	—	—	Grommet	Yes	3-wire (NPN)	In-line	D-G59-900	●	—	●	○	—	—	—	—	—	●	—					
					3-wire (PNP)		D-G5P-900	●	—	●	○	—	—	—	—	—	—	●	—				
					2-wire		D-K59-900	●	—	●	○	—	—	—	—	—	—	—	●	—			
					3-wire (NPN)	In-line	D-G59W-900	●	—	●	○	—	—	—	—	—	—	—	●	—			
					3-wire (PNP)		D-G5PW-900	●	—	●	○	—	—	—	—	—	—	—	●	—			
					2-wire		D-K59W-900	●	—	●	○	○	—	—	—	—	—	—	●	—			
	Diagnostic indication (2-color indicator)	—	Grommet	Yes	3-wire (NPN)	In-line	D-F79-900	●	—	●	○	—	—	—	—	—	—	—					
					3-wire (PNP)		D-F7P-900	●	—	●	○	—	—	—	—	—	—	—					
					2-wire		D-J79-900	●	—	●	○	—	—	—	—	—	—	—					
					3-wire (NPN)	Perpendicular	D-F7NV-900	●	—	●	○	—	—	—	—	—	—	—					
					3-wire (PNP)		D-F7PV-900	●	—	●	○	—	—	—	—	—	—	—					
					2-wire		D-F7BV-900	●	—	●	○	—	—	—	—	—	—	—					
	Diagnostic indication (2-color indicator)	—	Grommet	Yes	3-wire (NPN)	In-line	D-F79W-900	●	—	●	○	—	—	—	—	—	—	—					
					3-wire (PNP)		D-F7PW-900	●	—	●	○	—	—	—	—	—	—	—					
					2-wire		D-J79W-900	●	—	●	○	—	—	—	—	—	—	—					
					3-wire (NPN)	Perpendicular	D-F7NVV-900	●	—	●	○	—	—	—	—	—	—	—					
					3-wire (PNP)		D-F7PVV-900	●	—	●	○	—	—	—	—	—	—	—					
					2-wire		D-F7BVV-900	●	—	●	○	—	—	—	—	—	—	—					
	—	—	Grommet	Yes	3-wire (NPN)	In-line	D-F8N-900	●	—	●	○	—	—	—	—	—	—	—					
					3-wire (PNP)		D-F8P-900	●	—	●	○	—	—	—	—	—	—	—					
					2-wire		D-F8B-900	●	—	●	○	—	—	—	—	—	—	—					
					Reed auto switch	—	Grommet	No	2-wire	In-line	D-A90-900	—	—	●	—	—	●*1	●	●	—	—	●	
											D-Z80-900	—	—	●	—	—	—	—	—	—	—	—	—
											Yes	3-wire (NPN equiv.)	In-line	D-E76A	●	—	●	—	—	—	—	—	—
D-E73A	●	—	●	—	—	—	—	—	—	—				—									
D-E80A	●	—	●	—	—	—	—	—	—	—				—									

*1 The D-A90L-900 cannot be mounted on ø4. * Solid state auto switches marked with "○" are produced upon receipt of order.

Ordering the Auto Switches

Please be aware that the order part numbers for the cylinder mounted and individual auto switches are different.

(Example) Part number for ordering D-M9BWL-900:

- Cylinder mounted type: 25A-CDJ2L16-60-M9BWL (Omit the first "D-" and the last "-900" or "-901".)
- Individual auto switch: D-M9BWL-900 (Place the order with the part number for auto switch shown in the table above.)

- * Lead wire length symbols: 0.5 m..... Nil (Example) M9NW
 1 m..... M (Example) M9NWM
 3 m..... L (Example) M9NWL
 5 m..... Z (Example) M9NWZ

25A- Series

Applicable Cylinder Series

Auto switches														
Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Electrical entry direction	Auto switch model	Lead wire length [m]				Pre-wired connector			
							0.5	1	3	5				
							Nil	M	L	Z	SDPC			
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	In-line	D-M9N-900	●	●	●	○	—			
				3-wire (PNP)		D-M9P-900	●	●	●	○	—			
				2-wire		D-M9B-900	●	●	●	○	—			
				3-wire (NPN)		Perpendicular	D-M9NV-900	●	●	●	○	—		
				3-wire (PNP)			D-M9PV-900	●	●	●	○	—		
				2-wire			D-M9BV-900	●	●	●	○	—		
				3-wire (NPN)	In-line		D-M9NW-900	●	●	●	○	—		
				3-wire (PNP)			D-M9PW-900	●	●	●	○	—		
				2-wire			D-M9BW-900	●	●	●	○	○		
				3-wire (NPN)		Perpendicular	D-M9NWV-900	●	●	●	○	—		
				3-wire (PNP)			D-M9PWV-900	●	●	●	○	—		
				2-wire			D-M9BWV-900	●	●	●	○	○		
	3-wire (NPN)			In-line	D-Y59A-900		●	●	●	○	—			
	3-wire (PNP)				D-Y7P-900		●	●	●	○	—			
	2-wire				D-Y59B-900		●	●	●	○	—			
	3-wire (NPN)				Perpendicular	D-Y69A-900	●	●	●	○	—			
	3-wire (PNP)					D-Y7PV-900	●	●	●	○	—			
	2-wire					D-Y69B-900	●	●	●	○	—			
	3-wire (NPN)			In-line		D-Y7NW-900	●	●	●	○	—			
	3-wire (PNP)					D-Y7PW-900	●	●	●	○	—			
	2-wire					D-Y7BW-900	●	●	●	○	—			
	3-wire (NPN)				Perpendicular	D-Y7NWV-900	●	●	●	○	—			
	3-wire (PNP)					D-Y7PWV-900	●	●	●	○	—			
	2-wire					D-Y7BWV-900	●	●	●	○	—			
	3-wire (NPN)	In-line	D-G59-900	●		—	●	○	—					
	3-wire (PNP)		D-G5P-900	●		—	●	○	—					
	2-wire		D-K59-900	●		—	●	○	—					
	3-wire (NPN)		Perpendicular	D-G59W-900	●	—	●	○	—					
	3-wire (PNP)			D-G5PW-900	●	—	●	○	—					
	2-wire			D-K59W-900	●	—	●	○	○					
	3-wire (NPN)	In-line		D-F79-900	●	—	●	○	—					
	3-wire (PNP)			D-F7P-900	●	—	●	○	—					
	2-wire			D-J79-900	●	—	●	○	—					
	3-wire (NPN)		Perpendicular	D-F7NV-900	●	—	●	○	—					
	3-wire (PNP)			D-F7PV-900	●	—	●	○	—					
	2-wire			D-F7BV-900	●	—	●	○	—					
	3-wire (NPN)	In-line		D-F79W-900	●	—	●	○	—					
	3-wire (PNP)			D-F7PW-900	●	—	●	○	—					
	2-wire			D-J79W-900	●	—	●	○	—					
	3-wire (NPN)		Perpendicular	D-F7NWV-900	●	—	●	○	—					
	2-wire			D-F7BWV-900	●	—	●	○	—					
	3-wire (NPN)			In-line	D-F8N-900	●	—	●	○	—				
	3-wire (PNP)	D-F8P-900			●	—	●	○	—					
	2-wire	D-F8B-900			●	—	●	○	—					
	—	Diagnostic indication (2-color indicator)			Grommet	Yes	3-wire (NPN)	In-line	D-A90-900	—	—	●	—	—
			D-Z80-900						—	—	●	—	—	
			3-wire (NPN equiv.)						In-line	D-E76A	●	—	●	—
				D-E73A						●	—	●	—	—
D-E80A				●						—	●	—	—	
—			Diagnostic indication (2-color indicator)	Grommet					No	2-wire	In-line	D-A90-900	—	—
	D-Z80-900	—			—	●	—	—						
	3-wire (NPN equiv.)	In-line			D-E76A	●	—	●				—	—	
					D-E73A	●	—	●				—	—	
					D-E80A	●	—	●				—	—	

25A- Series

Applicable Rotary Actuator Series

Type	Special function	Electrical entry	Indicator light	Auto switches					Rotary actuators								
				Wiring (Output)	Electrical entry direction	Auto switch model	Lead wire length [m]				Pre-wired connector	MSQ	MSZ	MDSUB			
							0.5 Nil	1 M	3 L	5 Z				10 to 200	10 to 50	1, 3	7, 20
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	In-line	D-M9N-900	●	●	●	○	—	●	●	—	—		
						D-M9P-900	●	●	●	○	—	●	●	—	—		
						2-wire	D-M9B-900	●	●	●	○	—	●	●	—	—	
						3-wire (NPN)	Perpendicular	D-M9NV-900	●	●	●	○	—	●	●	—	—
								D-M9PV-900	●	●	●	○	—	●	●	—	—
						2-wire	D-M9BV-900	●	●	●	○	—	●	●	—	—	
				3-wire (PNP)	In-line	D-M9NW-900	●	●	●	○	—	●	●	—	—		
						D-M9PW-900	●	●	●	○	—	●	●	—	—		
						2-wire	D-M9BW-900	●	●	●	○	○	●	●	—	—	
						3-wire (NPN)	Perpendicular	D-M9NWV-900	●	●	●	○	—	●	●	—	—
								D-M9PWV-900	●	●	●	○	—	●	●	—	—
						2-wire	D-M9BWV-900	●	●	●	○	○	●	●	—	—	
	3-wire (NPN)	In-line	D-Y59A-900	●	●	●	○	—	—	—	—	—					
			3-wire (PNP)	D-Y7P-900	●	●	●	○	—	—	—	—					
			2-wire	D-Y59B-900	●	●	●	○	—	—	—	—					
			3-wire (NPN)	Perpendicular	D-Y69A-900	●	●	●	○	—	—	—	—				
					D-Y7PV-900	●	●	●	○	—	—	—	—				
			2-wire	D-Y69B-900	●	●	●	○	—	—	—	—					
	Diagnostic indication (2-color indicator)	3-wire (NPN)	In-line	D-Y7NW-900	●	●	●	○	—	—	—	—					
				D-Y7PW-900	●	●	●	○	—	—	—	—					
				2-wire	D-Y7BW-900	●	●	●	○	—	—	—	—				
				3-wire (NPN)	Perpendicular	D-Y7NWV-900	●	●	●	○	—	—	—	—			
						D-Y7PWV-900	●	●	●	○	—	—	—	—			
				2-wire	D-Y7BWV-900	●	●	●	○	—	—	—	—				
		3-wire (PNP)	In-line	D-S991-901*1	●	—	●	○	—	—	—	●	—				
				D-S992-901*1	●	—	●	○	—	—	—	●	—				
				D-S9P1-901*1	●	—	●	○	—	—	—	●	—				
				D-S9P2-901*1	●	—	●	○	—	—	—	●	—				
				D-T991-901*1	●	—	●	○	—	—	—	●	—				
				D-T992-901*1	●	—	●	○	—	—	—	●	—				
	3-wire (NPN)	Perpendicular	D-S99V1-901*1	●	—	●	○	—	—	—	●	—					
			D-999V2-901*1	●	—	●	○	—	—	—	●	—					
			D-S9PV1-901*1	●	—	●	○	—	—	—	●	—					
			D-S9PV2-901*1	●	—	●	○	—	—	—	●	—					
			D-T99V1-901*1	●	—	●	○	—	—	—	●	—					
			D-T99V2-901*1	●	—	●	○	—	—	—	●	—					
	3-wire (PNP)	In-line	D-S791-901*1	●	—	●	○	—	—	—	—	●					
			D-S792-901*1	●	—	●	○	—	—	—	—	●					
			D-S7P1-901*1	●	—	●	○	—	—	—	—	●					
			D-S7P2-901*1	●	—	●	○	—	—	—	—	●					
D-T791-901*1			●	—	●	○	—	—	—	—	●						
D-T792-901*1			●	—	●	○	—	—	—	—	●						
Reed auto switch	—	Grommet	No	2-wire	In-line	D-A90-900	—	—	●	—	—	●	—	—			

* Solid state auto switches marked with "○" are produced upon receipt of order.

* Note that the individual auto switch with part number of "S□□" and "T□□" have the right-hand-type (□□□1) and the left-hand-type (□□□2).

When you order the actuator with two auto switches at the part number of the actuator, one each of the right-hand-type and the left-hand-type are shipped together with the actuator.

* When the MHZ2-10, MHZL2-10, MHL2-10 to 40, or MHS3-32 air gripper is ordered with auto switch, mounting brackets are supplied with the air gripper.

When the auto switch is used at the square groove on the side with other cylinder bore sizes, or ordering only auto switches separately, mounting brackets (90-BMG2-012) are required. Order them separately. For details, refer to page 214.

Ordering the Auto Switches

Please be aware that the order part numbers for the rotary actuator mounted and individual auto switches are different.
 (Example) Part number for ordering D-M9BWL-900:

• Rotary actuator mounted type: 25A-MSQB-10A-M9BWL (Omit the first "D-" and the last "-900" or "-901".)	* Lead wire length symbols: 0.5 m..... Nil (Example) M9NW 1 m..... M (Example) M9NWM 3 m..... L (Example) M9NWL 5 m..... Z (Example) M9NWZ
• Individual auto switch: D-M9BWL-900 (Place the order with the part number for auto switch shown in the table above.)	

*1 Lead wire for a solid state auto switch with "-901" at the end of part number has been changed to a cable for a robot use.

Applicable Air Gripper Series

Auto switches										Air grippers										Directional Control Valves							
Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Electrical entry direction	Auto switch model	Lead wire length [m]				Pre-wired connector	MHZ2	MHZL2	MHZJ2	MHZL2-X6100	MHZL2-X5955	MHL2	MHF2	MHS3		MHS4	MHSJ3	MHY2	MHW2			
							0.5 Nil	1 M	3 L	5 Z		SDPC	10 to 40	10 to 25	10 to 25	32, 40	10 to 20	10 to 40	8 to 20		16 to 32	16 to 32	16 to 25	20 to 50			
Solid state auto switch	Diagnostic indication (2-color indicator)	Grommet	Yes	3-wire (NPN)	In-line	D-M9N-900	●	●	●	○	—	●	●	●	●	●	●	●	●	●	●	●	●	●			
						D-M9P-900	●	●	●	○	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
						D-M9B-900	●	●	●	○	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
				3-wire (NPN)	Perpendicular	D-M9NV-900	●	●	●	○	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
						D-M9PV-900	●	●	●	○	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
						D-M9BV-900	●	●	●	○	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
				3-wire (NPN)	In-line	D-M9NW-900	●	●	●	○	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
						D-M9PW-900	●	●	●	○	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
						D-M9BW-900	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
				3-wire (NPN)	Perpendicular	D-M9NWV-900	●	●	●	○	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
						D-M9PWV-900	●	●	●	○	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
						D-M9BWB-900	●	●	●	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
				3-wire (NPN)	In-line	D-Y59A-900	●	●	●	○	—	●	●	—	—	—	—	—	—	—	—	—	—	—	—	●	
						D-Y7P-900	●	●	●	○	—	●	●	—	—	—	—	—	—	—	—	—	—	—	—	—	●
						D-Y59B-900	●	●	●	○	—	●	●	—	—	—	—	—	—	—	—	—	—	—	—	—	●
	3-wire (NPN)	Perpendicular	D-Y69A-900	●	●	●	○	—	●	●	—	—	—	—	—	—	—	—	—	—	—	—	—	●			
			D-Y7PV-900	●	●	●	○	—	●	●	—	—	—	—	—	—	—	—	—	—	—	—	—	●			
			D-Y69B-900	●	●	●	○	—	●	●	—	—	—	—	—	—	—	—	—	—	—	—	—	●			
	3-wire (NPN)	In-line	D-Y7NW-900	●	●	●	○	—	●	●	—	—	—	—	—	—	—	—	—	—	—	—	—	●			
			D-Y7PW-900	●	●	●	○	—	●	●	—	—	—	—	—	—	—	—	—	—	—	—	—	●			
			D-Y7BW-900	●	●	●	○	—	●	●	—	—	—	—	—	—	—	—	—	—	—	—	—	●			
	3-wire (NPN)	Perpendicular	D-Y7NWV-900	●	●	●	○	—	●	●	—	—	—	—	—	—	—	—	—	—	—	—	—	●			
			D-Y7PWV-900	●	●	●	○	—	●	●	—	—	—	—	—	—	—	—	—	—	—	—	—	●			
			D-Y7BWB-900	●	●	●	○	—	●	●	—	—	—	—	—	—	—	—	—	—	—	—	—	●			
	3-wire (NPN)	In-line	—	—	D-S991-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
					D-S992-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
					D-S9P1-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
					D-S9P2-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
					D-T991-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
					D-T992-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3-wire (NPN)		Perpendicular	—	—	D-S99V1-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
					D-999V2-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
					D-S9PV1-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
					D-S9PV2-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
					D-T99V1-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
					D-T99V2-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3-wire (NPN)	In-line	—	—	D-S791-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
				D-S792-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
				D-S7P1-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
				D-S7P2-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
				D-T791-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
				D-T792-901*1	●	—	●	○	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Reed auto switch	—	Grommet	No	2-wire	In-line	D-A90-900	—	—	●	—	—	—	—	—	—	—	—	—	—	—	—	—					

- * Solid state auto switches marked with "○" are produced upon receipt of order.
- * Note that the individual auto switch with part number of "S□□" and "T□□" have the right-hand-type (□□□1) and the left-hand-type (□□□2).
When you order the actuator with two auto switches at the part number of the actuator, one each of the right-hand-type and the left-hand-type are shipped together with the actuator.
- * When the MHZ2-10, MHZL2-10, MHL2-10 to 40, or MHS3-32 air gripper is ordered with auto switch, mounting brackets are supplied with the air gripper. When the auto switch is used at the square groove on the side with other cylinder bore sizes, or ordering only auto switches separately, mounting brackets (90-BMG2-012) are required. Order them separately. For details, refer to page 214.

Ordering the Auto Switches

Please be aware that the order part numbers for the air gripper mounted and individual auto switches are different.
 (Example) Part number for ordering D-M9BWL-900:
 • Air gripper mounted type: 25A-MHZ2-16D-M9BWL * Lead wire length symbols: 0.5 m..... Nil (Example) M9NW
 (Omit the first "D-" and the last "-900" or "-901".) 1 m..... M (Example) M9NWM
 • Individual auto switch: D-M9BWL-900 3 m..... L (Example) M9NWL
 (Place the order with the part number for auto switch shown in the table above.) 5 m..... Z (Example) M9NWZ

*1 Lead wire for a solid state auto switch with "-901" at the end of part number has been changed to a cable for a robot use.



25A- Series

Applicable Electric Actuator Series

Auto switches										Electric actuators			
Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Electrical entry direction	Auto switch model	Lead wire length [m]				Pre-wired connector SDPC	LEJS	LEY
							0.5 Nil	1 M	3 L	5 Z		40 to 63	16 to 40
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	In-line	D-M9N-900	●	●	●	○	—	●	●
				3-wire (PNP)		D-M9P-900	●	●	●	○	—	●	●
				2-wire		D-M9B-900	●	●	●	○	—	●	●
				3-wire (NPN)	Perpendicular	D-M9NV-900	●	●	●	○	—	●	●
				3-wire (PNP)		D-M9PV-900	●	●	●	○	—	●	●
				2-wire		D-M9BV-900	●	●	●	○	—	●	●
	Diagnostic indication (2-color indicator)	Grommet	Yes	3-wire (NPN)	In-line	D-M9NW-900	●	●	●	○	—	●	●
				3-wire (PNP)		D-M9PW-900	●	●	●	○	—	●	●
				2-wire		D-M9BW-900	●	●	●	○	○	●	●
				3-wire (NPN)	Perpendicular	D-M9NWV-900	●	●	●	○	—	●	●
				3-wire (PNP)		D-M9PWV-900	●	●	●	○	—	●	●
				2-wire		D-M9BWV-900	●	●	●	○	○	●	●

* Solid state auto switches marked with “○” are produced upon receipt of order.

* Auto switches cannot be ordered with the actuator part number. They should be ordered separately. Please refer below for ordering.
One each of the right-hand-type and the left-hand-type are shipped together with the actuator.

Ordering the Auto Switches

- Individual auto switch: D-M9BWL-900
(Place the order with the part number for auto switch shown in the table above.)
- * Lead wire length symbols: 0.5 m..... Nil (Example) M9NW
1 m..... M (Example) M9NWM
3 m..... L (Example) M9NWL
5 m..... Z (Example) M9NWZ

25A- Series Auto Switch Mounting

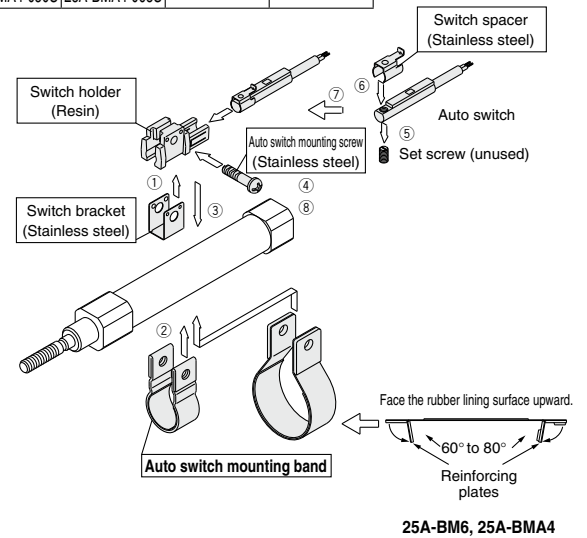
Band Mounting Type

Applicable cylinder series: 25A-CDJ2, 25A-CDJ2K, 25A-CDBJ2, 25A-CDM2, 25A-CDG1, 25A-CDBG1, 25A-MGG
 Applicable auto switches : D-M9□-900, D-M9□W-900, D-M9BWSVPC-900, D-M9BWSVPC-900, D-A90-900

Auto Switch Mounting Bracket Part Nos.

Cylinder series	Applicable bore size [mm]									
	10	16	20	25	32	40	50	63	80	100
25A-CDJ2 25A-CDJ2K 25A-CDBJ2	*1 25A-BJ7-010S	*1 25A-BJ7-016S	—	—	—	—	—	—	—	—
25A-CDM2	—	—	*2 25A-BM6-020S	*2 25A-BM6-025S	*2 25A-BM6-032S	*2 25A-BM6-040S	—	—	—	—
25A-CDG1 25A-CDBG1	—	—	*3 25A-BMA4-020S	*3 25A-BMA4-025S	*3 25A-BMA4-032S	*3 25A-BMA4-040S	*3 25A-BMA4-050S	*3 25A-BMA4-063S	—	—
25A-MGG	—	—	*3 25A-BMA4-020S	*3 25A-BMA4-025S	*3 25A-BMA4-032S	*3 25A-BMA4-040S	*3 25A-BMA4-050S	*3 25A-BMA4-063S	—	—

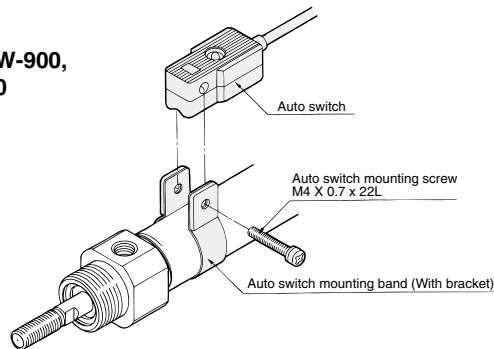
- *1 The combination of the auto switch mounting band (BJ2-□□□S/with a stainless steel screw) and the holder set (BJ3-1).
- *2 The combination of the auto switch mounting band (for BM2-□□□) and stainless steel screw (BBA4), and the holder set (BJ3-1).
- *3 The combination of the auto switch mounting band (for BMA2-□□□) and stainless steel screw (BBA4), and the holder set (BJ3-1).



Applicable cylinder series: 25A-CDG1, 25A-CDBG1
 Applicable auto switches : D-G5□-900, D-K59-900, D-G5□W-900, D-K59W-900, D-K59WSVPC-900

Auto Switch Mounting Bracket Part Nos.

Cylinder series	Applicable bore size [mm]	
	80	100
25A-CDG1 25A-CDBG1	BA-08S	BA-10S

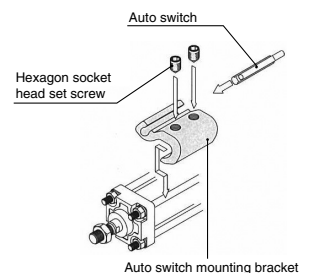


Tie-rod Mounting Type

Applicable cylinder series: 25A-MDB, 25A-CDA2, 25A-CDS2
 Applicable auto switches : D-M9□-900, D-M9□V-900, D-M9□W-900, D-M9□WV-900, D-M9BWSVPC-900, D-M9BWSVPC-900 : D-A90-900

Auto Switch Mounting Bracket Part Nos.

Cylinder series	Applicable bore size [mm]									
	32	40	50	63	80	100	125	140	160	
25A-MDB	90- BMB5-032	90- BMB5-032	90- BA7-040	90- BA7-040	90- BA7-063	90- BA7-063	—	—	—	
25A-CDA2	—	90- BA7-040	90- BA7-040	90- BA7-063	90- BA7-080	90- BA7-080	—	—	—	
25A-CDS2	—	—	—	—	—	—	25A- BS6-125	25A- BS6-125	25A- BS6-160	



25A- Series

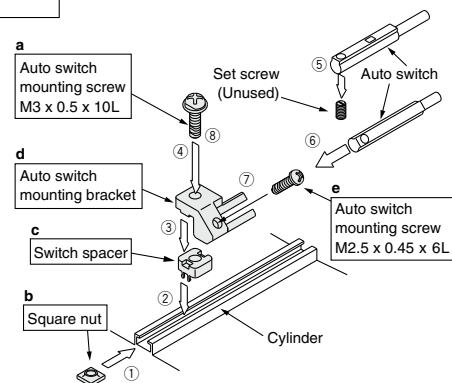
Rail Mounting Type

Applicable cylinder series: 25A-CDBQ2

Applicable auto switches : D-M9N(V)-900, D-M9P(V)-900, D-M9B(V)-900, D-M9NW(V)-900, D-M9PW(V)-900, D-M9BW(V)-900, D-M9NA(V)-900, D-M9PA(V)-900, D-M9BA(V)-900, D-A90-900

Auto Switch Mounting Bracket Part No.

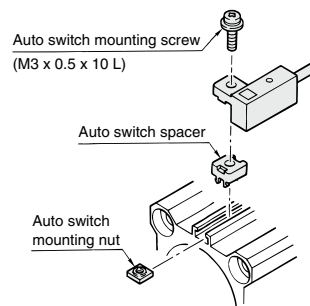
Cylinder series	Applicable bore size [mm]							
	20	25	32	40	50	63	80	100
25A-CDBQ2	—	—	25A-BQ2-032			—	—	—



Applicable auto switches: D-F79-900, D-F7P-900, D-J79-900, D-F7NV-900, D-F7PV-900, D-F7BV-900, D-F79W-900, D-F7PW-900, D-J79W-900, D-F7NWV-900, D-F7BWV-900

Auto Switch Mounting Bracket Part No.

Cylinder series	Applicable bore size [mm]								
	20	25	32	40	50	63	80	100	
25A-CDBQ2	—	—	25A-BQ-2						—

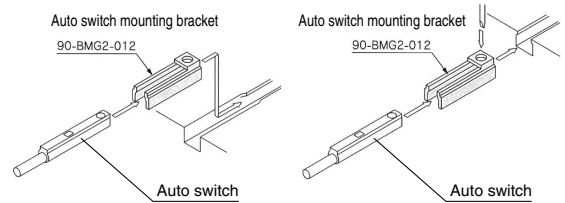


Direct Mounting Type

Applicable cylinder series : 25A-MY1B, 25A-MY1H, 25A-MY3□,
25A-CY3R, 25A-MGP-Z, 25A-MGP-AZ,
25A-MGP-H/R, 25A-RSH

Applicable air gripper series: 25A-MHZ(L) 2, 25A-MHL2, 25A-MHS3, MHS4

Applicable auto switches : D-M9□-900, D-M9□V-900, D-M9□W-900,
D-M9□WV-900, D-M9BWSRPC-900,
D-M9BWVSDPC-900
: D-A90L-900



Auto Switch Mounting Bracket Part Nos.

Cylinder series Air gripper series	Applicable bore size [mm]													
	4	6	10	12	15	16	20	25	32	40	50	63	80	100
25A-CDJP2	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25A-MY1B-Z	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25A-MY1H-Z	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25A-MY1B	—	—	—	—	—	Not required	Not required	—	—	—	—	90-BMG2-012	—	—
25A-MY1M	—	—	—	—	—	Not required	Not required	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	—	—
25A-MY1C	—	—	—	—	—	Not required	Not required	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	—	—
25A-MY1H	—	—	—	—	—	Not required	Not required	—	—	—	—	—	—	—
25A-MY3□	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25A-CY3R	—	—	—	—	Not required	—	Not required	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	—	—
25A-MGJ	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25A-MGP-Z 25A-MGP-AZ	—	—	—	Not required	—	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
25A-MGP-H/R	—	—	—	—	—	—	—	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012
25A-RSH	—	—	—	—	—	—	—	90-BMG2-012	—	90-BMG2-012	—	—	—	—
25A-MHZ2	—	—	90-BMG2-012	—	—	*1	*1	*1	*1	*1	—	—	—	—
25A-MHZL2	—	—	90-BMG2-012	—	—	*1	*1	*1	—	—	—	—	—	—
25A-MHL2	—	—	90-BMG2-012	—	—	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	90-BMG2-012	—	—	—	—
25A-MHS3 25A-MHS4	—	—	—	—	—	Not required	Not required	Not required	90-BMG2-012	—	—	—	—	—

*1 When mounting D-M9 type of auto switch onto the square groove of the side of the air gripper, the auto switch mounting bracket (90-BMG2-012) is required.

Directional Control Valves

Air Cylinders

Related Products

Rotary Actuators

Air Grippers

Vacuum Equipment

Air Preparation Equipment

Clean Air Filters

Modular F.R.L. Pressure Control Equipment

Fittings/Flow Control Equipment

Detection Switches

Fluid Control Equipment

Electric Actuators

Auto Switches