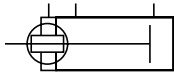


Symbol



Caution : If used when a lateral load is applied, or used as a lifter, load should be 20% or less of the standard type.

Specifications

Item	Bore size mm [in.]	12 [0.472]	16 [0.630]	20 [0.787]	25 [0.984]	32 [1.260]	40 [1.575]	50 [1.969]	63 [2.480]
Operating type		Double acting type							
Media		Air							
Operating pressure range	MPa [psi.]	0.2~1.0 [29~145]			0.15~1.0 [22~145]				
Proof pressure	MPa [psi.]	1.5 [218]							
Operating temperature range	°C [°F]	0~60 [32~140]							
Operating speed range	mm/s [in./sec.]	100~300 [3.9~11.8]							
Cushion		Rubber bumper							
Lubrication		Prohibited							
Port size		M5×0.8			Rc1/8			Rc1/4	
Dust collection port size		M5×0.8							
Stroke tolerance	mm [in.]	+1.5 [+0.059] 0 0							

Remark: Since plugs for connection ports in $\phi 20 \sim \phi 63$ are provided, care should be taken not to get sealant into the cylinder when assembling the plugs after applying sealant, etc.

Bore Size and Stroke

Bore size	Standard strokes		Maximum available stroke
	mm [in.]		
12 [0.472]	10, 20, 30, 40, 50, 75, 100		100
16 [0.630]			
20 [0.787]			
25 [0.984]			
32 [1.260]	10, 20, 30, 40, 50, 75, 100, 125, 150, 175, 200		200
40 [1.575]			
50 [1.969]			
63 [2.480]			

Remarks: 1. Non-standard strokes are available at 5mm [0.197in.] intervals. Since the manufacturing method is collar packed, the total length, etc., are the same dimensions as the next size up standard stroke cylinder.

2. Strokes of 75mm [2.953in.] or longer, use long bushing type.

Order Codes

Dust prevention specification

- P1 : Single seal (Vacuum type)
- P2 : Double seal (Relief type)

Remark : P1 and P2 are compatible to Class 5^{Note}.

Note: FED-STD209E
Class 100 equivalent

Bearing specification

- Q : Rolling bearing type

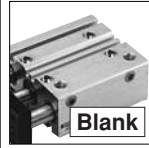
Operating type

- DA : Double acting type

Clean system product

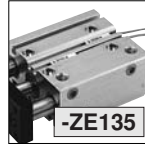
Sensor switch ^{Note}

Without sensor switch



Blank

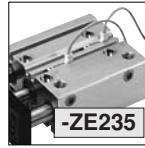
With ZE135



-ZE135

- 2-lead wire Solid state type
- With indicator lamp
- DC10~28V
- Horizontal lead wire

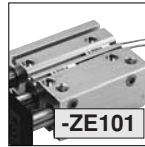
With ZE235



-ZE235

- 2-lead wire Solid state type
- With indicator lamp
- DC10~28V
- Vertical lead wire

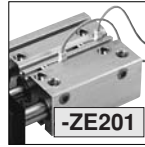
With ZE101



-ZE101

- 2-lead wire Reed switch type
- Without indicator lamp
- DC5~28V, AC85~115V
- Horizontal lead wire

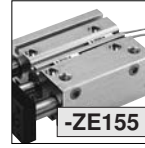
With ZE201



-ZE201

- 2-lead wire Reed switch type
- Without indicator lamp
- DC5~28V, AC85~115V
- Vertical lead wire

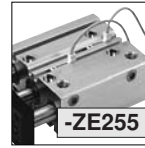
With ZE155



-ZE155

- 3-lead wire Solid state type
- With indicator lamp
- DC4.5~28V
- Horizontal lead wire

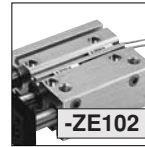
With ZE255



-ZE255

- 3-lead wire Solid state type
- With indicator lamp
- DC4.5~28V
- Vertical lead wire

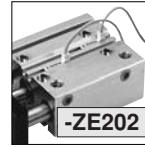
With ZE102



-ZE102

- 2-lead wire Reed switch type
- With indicator lamp
- DC10~28V, AC85~115V
- Horizontal lead wire

With ZE202



-ZE202

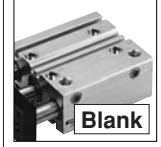
- 2-lead wire Reed switch type
- With indicator lamp
- DC10~28V, AC85~115V
- Vertical lead wire

Lead wire length

- A : 1000mm [39in.]
- B : 3000mm [118in.]

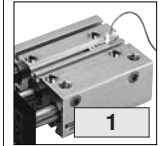
Number of sensor switches

Without sensor switch



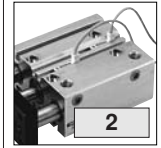
Blank

With 1 sensor switch



1

With 2 sensor switches



2

Basic type		Bore size X Stroke			Lead wire length		Number of sensor switches	
CS-	SG	DA	Q	X	-P1 -P2	-ZE135 -ZE235 -ZE155 -ZE255 -ZE101 -ZE201 -ZE102 -ZE202	A B	1 2 : n

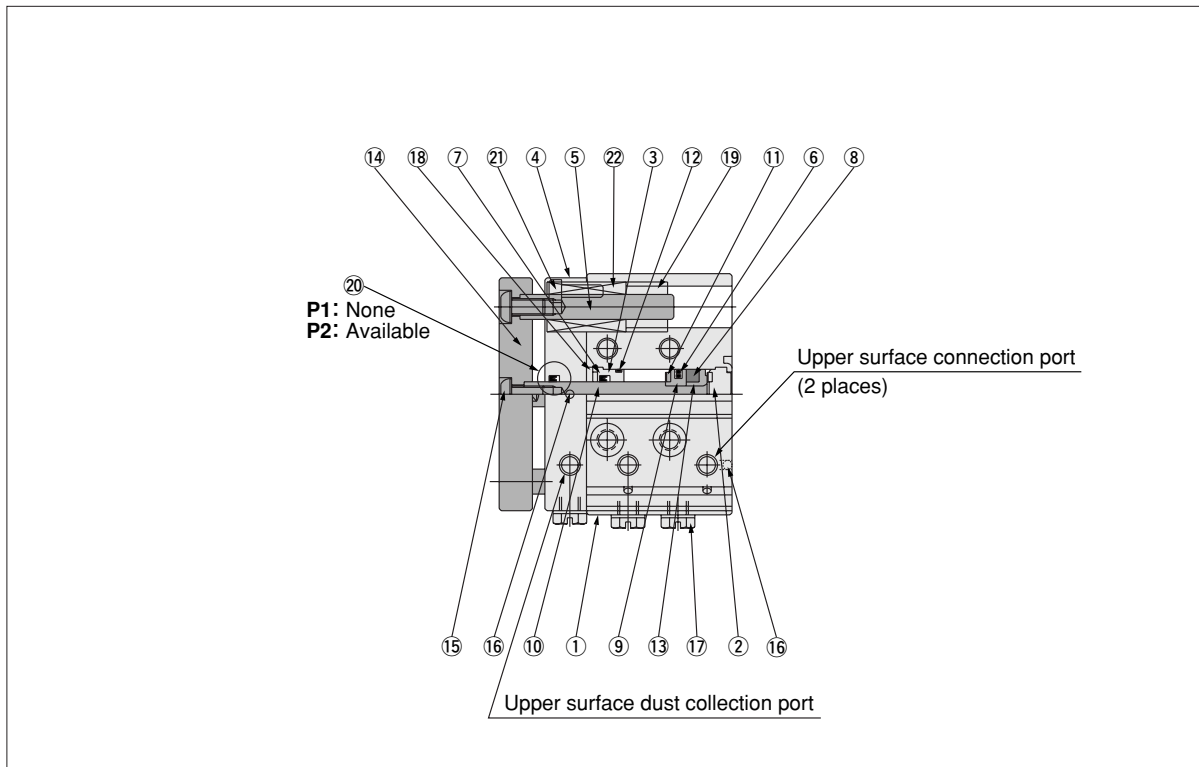
● See the bore size and stroke on p.43.

● For the order codes for sensor switches only, see p.49.

Note: For details of sensor switches, see p.111~121.

Inner Construction and Major Parts

■ Jig Cylinder with Guide (Diagram shows $\phi 12$ [0.472in.])



Remark: The number of bearings for 50mm [1.969in.] stroke or shorter is 1 bearing per shaft. At 75mm [2.953in.] stroke or longer, 2 bearings per shaft. The plate, piston rod, and guide rod cannot be disassembled.

Major Parts and Materials

No.	Parts	Bore mm [in.]	12 [0.472]	16 [0.630]	20 [0.787]	25 [0.984]	32 [1.260]	40 [1.575]	50 [1.969]	63 [2.480]	
①	Cylinder body		Aluminum alloy (anodized)								
②	Head cover		Aluminum alloy (anodized)								
③	Rod cover		Aluminum alloy (special wear-resistant treatment)								
④	Dust prevention cover		Aluminum alloy (anodized)								
⑤	Guide rod		Stainless steel								
⑥	Piston seal		Synthetic rubber (NBR)								
⑦	Rod seal		Synthetic rubber (NBR)								
⑧	Magnet		Plastic magnet								
⑨	Piston		Aluminum alloy (special rust prevention treatment)								
⑩	Piston rod		Stainless steel (hard chrome plated)								
⑪	Bumper		Synthetic rubber (NBR)								
⑫	O-ring		Synthetic rubber (NBR)								
⑬	Support		Aluminum alloy (special rust prevention treatment)								
⑭	Plate		Aluminum alloy (anodized)								
⑮	Bolt		Steel (nickel plated)				Stainless steel				
⑯	Steel ball		Stainless steel								
⑰	Plug		Brass (nickel plated)	Stainless steel (supplied at shipping for $\phi 20$ [0.787]~ $\phi 63$ [2.480])							
⑱	Snap ring		Steel (nickel plated)								
⑲	Collar		Aluminum alloy (special rust prevention treatment)								
⑳	Dust leak prevention seal		Synthetic rubber (NBR)								
㉑	Bolt		Stainless steel								
㉒	Rolling bearing		Steel, plastic (low dust generation treatment)								

Seals

Bore size mm	Type	Jig cylinders with guides		
	Parts	Rod seal Dust leak prevention seal	Piston seal	Tube gasket
				Rod side
12		MYR-6	PSD-12	Y090260 None
16		MYR-8	PSD-16	Y090207 Y090207
20		MYR-10	PSD-20	Y090216 Y090216
25		MYR-12	PSD-25	Y090210 Y090210
32		MYR-16	PSD-32	L090084 L090084
40		MYR-16	PSD-40	L090151 L090151
50		MYR-20	PSD-50	L090174 L090174
63		MYR-20	PSD-63	L090180 L090180

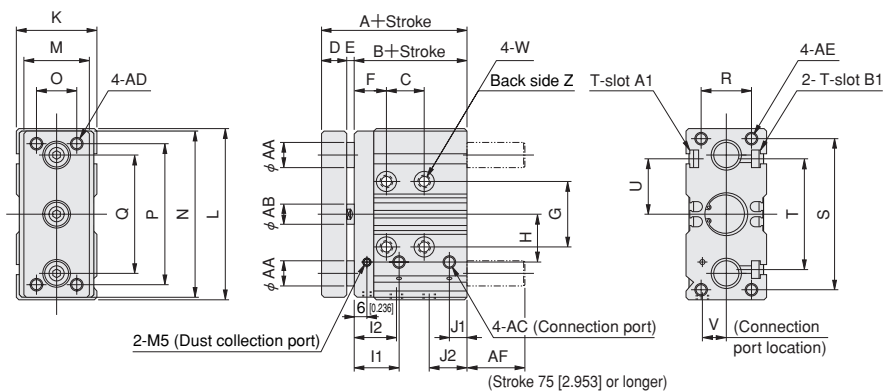
Mass

Bore size mm [in.]		Type	Jig cylinders with guides		Options	
		Mass	Zero stroke mass	Additional mass for each 1mm [0.0394in.] stroke	Additional mass of sensor switch	
					ZE□□□A	ZE□□□B
12 [0.472]	50 [1.969] st or shorter	158 [5.57]	3.63 [0.1280]	15 [0.53]	35 [1.23]	
	75 [2.953] st or longer	168 [5.93]	3.63 [0.1280]			
16 [0.630]	50 [1.969] st or shorter	256 [9.03]	5.17 [0.1824]			
	75 [2.953] st or longer	297 [10.48]	5.17 [0.1824]			
20 [0.787]	50 [1.969] st or shorter	440 [15.52]	8.4 [0.296]			
	75 [2.953] st or longer	521 [18.38]	8.4 [0.296]			
25 [0.984]	50 [1.969] st or shorter	642 [22.65]	10.12 [0.3570]			
	75 [2.953] st or longer	720 [25.40]	10.12 [0.3570]			
32 [1.260]	50 [1.969] st or shorter	1012 [35.70]	13.71 [0.4836]			
	75 [2.953] st or longer	1227 [43.28]	13.71 [0.4836]			
40 [1.575]	50 [1.969] st or shorter	1230 [43.39]	15.78 [0.5566]			
	75 [2.953] st or longer	1530 [53.97]	15.78 [0.5566]			
50 [1.969]	50 [1.969] st or shorter	2082 [73.44]	23.27 [0.8208]			
	75 [2.953] st or longer	2419 [85.33]	23.27 [0.8208]			
63 [2.480]	50 [1.969] st or shorter	2700 [95.24]	26.97 [0.9513]			
	75 [2.953] st or longer	3038 [107.16]	26.97 [0.9513]			

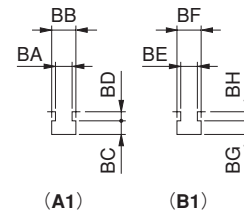
Dimensions mm [in.]

Rolling bearing type **CS-SGDAQ** Bore size × Stroke

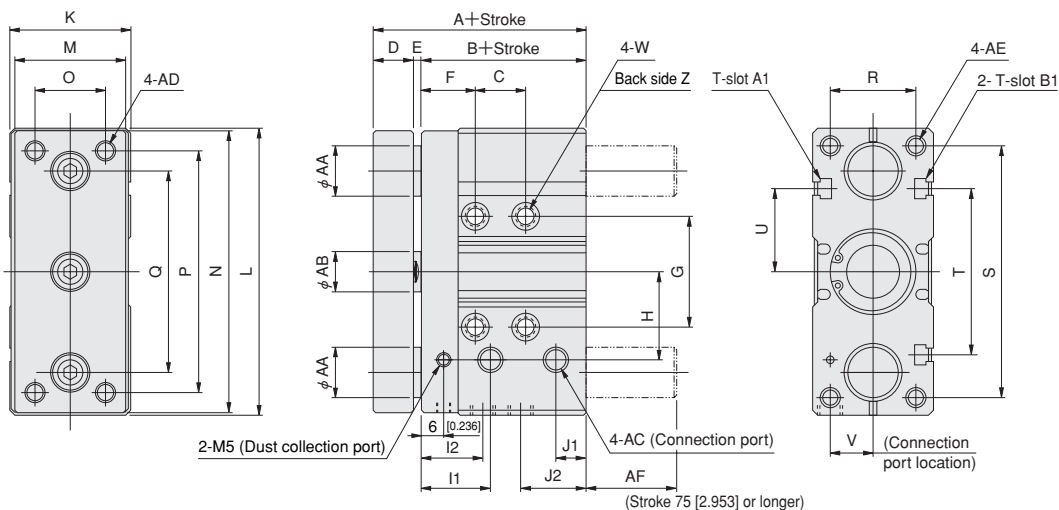
● $\phi 12$ [0.472], $\phi 16$ [0.630]



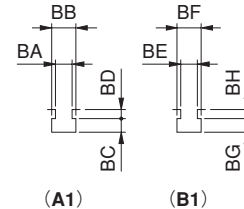
● T-slot A1, B1 dimensions



● $\phi 20$ [0.787]~ $\phi 63$ [2.480]



● T-slot A1, B1 dimensions



Bore size	Code	A		B		C						D	E	F	G	H	I1	I2	J1	J2
		Stroke																		
		10	20	30	40	50~100	125 or longer													
12 [0.472]	46 [1.811]	35 [1.378]	15 [0.591]	25 [0.984]	35 [1.378]	45 [1.772]	55 [2.165]	—	8 [0.315]	3 [0.118]	15 [0.591]	22 [0.866]	17 [0.669]	20 [0.787]	19 [0.748]	6 [0.236]	14 [0.551]			
16 [0.630]	50 [1.969]	37 [1.457]	15 [0.591]	25 [0.984]	35 [1.378]	45 [1.772]	55 [2.165]	—	10 [0.394]	3 [0.118]	15 [0.591]	26 [1.024]	19 [0.748]	20 [0.787]	19 [0.748]	7.5 [0.295]	16 [0.630]			
20 [0.787]	62 [2.441]	46 [1.811]	20 [0.787]	30 [1.181]	40 [1.575]	50 [1.969]	60 [2.362]	110 [4.331]	12 [0.472]	4 [0.157]	16 [0.630]	30 [1.181]	27 [1.063]	21 [0.827]	21 [0.827]	10 [0.394]	20 [0.787]			
25 [0.984]	64 [2.520]	48 [1.890]	20 [0.787]	30 [1.181]	40 [1.575]	50 [1.969]	60 [2.362]	110 [4.331]	12 [0.472]	4 [0.157]	16 [0.630]	33 [1.299]	29 [1.142]	22 [0.866]	22 [0.866]	10 [0.394]	21 [0.827]			
32 [1.260]	69 [2.717]	50 [1.969]	20 [0.787]	30 [1.181]	40 [1.575]	50 [1.969]	60 [2.362]	110 [4.331]	15 [0.591]	4 [0.157]	17 [0.669]	44 [1.732]	35 [1.378]	23 [0.906]	20 [0.787]	12 [0.472]	25 [0.984]			
40 [1.575]	73 [2.874]	54 [2.126]	20 [0.787]	30 [1.181]	40 [1.575]	50 [1.969]	60 [2.362]	110 [4.331]	15 [0.591]	4 [0.157]	17 [0.669]	52 [2.047]	40 [1.575]	24 [0.945]	24 [0.945]	13 [0.512]	25 [0.984]			
50 [1.969]	80 [3.150]	57 [2.244]	20 [0.787]	30 [1.181]	40 [1.575]	50 [1.969]	60 [2.362]	110 [4.331]	18 [0.709]	5 [0.197]	18 [0.709]	66 [2.598]	52.5 [2.067]	25.5 [1.004]	20 [0.787]	15 [0.591]	31 [1.220]			
63 [2.480]	80 [3.150]	57 [2.244]	20 [0.787]	30 [1.181]	40 [1.575]	50 [1.969]	60 [2.362]	110 [4.331]	18 [0.709]	5 [0.197]	18 [0.709]	78 [3.071]	60 [2.362]	27 [1.063]	20 [0.787]	14 [0.551]	31 [1.220]			

Bore size	Code	K	L	M	N	O	P	Q	R	S	T	U	V ^{Note}	W
		12 [0.472]	28 [1.102]	58 [2.283]	22 [0.866]	56 [2.205]	14 [0.551]	48 [1.890]	42 [1.654]	18 [0.709]	51 [2.008]	37 [1.457]	18.5 [0.728]	8.5 [0.335]
16 [0.630]	32 [1.260]	68 [2.677]	26 [1.024]	66 [2.598]	16 [0.630]	56 [2.205]	47 [1.850]	20 [0.787]	60 [2.362]	44 [1.732]	22 [0.866]	9.5 [0.374]	φ 4.2 [0.165] (Thru hole) Counterbore φ 8 [0.315] Depth 4.5 [0.177]	
20 [0.787]	40 [1.575]	82 [3.228]	36 [1.417]	80 [3.150]	24 [0.945]	66 [2.598]	58 [2.283]	26 [1.024]	72 [2.835]	54 [2.126]	27 [1.063]	13.5 [0.531]	φ 5.2 [0.205] (Thru hole) Counterbore φ 9.5 [0.374] Depth 5.5 [0.217]	
25 [0.984]	42 [1.654]	92 [3.622]	38 [1.496]	90 [3.543]	26 [1.024]	76 [2.992]	63 [2.480]	30 [1.181]	80 [3.150]	54 [2.126]	27 [1.063]	14.5 [0.571]	φ 5.2 [0.205] (Thru hole) Counterbore φ 9.5 [0.374] Depth 5.5 [0.217]	
32 [1.260]	48 [1.890]	114 [4.488]	44 [1.732]	112 [4.409]	28 [1.102]	96 [3.780]	80 [3.150]	34 [1.339]	100 [3.937]	66 [2.598]	33 [1.299]	17 [0.669]	φ 6.8 [0.268] (Thru hole) Counterbore φ 11 [0.433] Depth 7 [0.276]	
40 [1.575]	54 [2.126]	124 [4.882]	50 [1.969]	122 [4.803]	34 [1.339]	106 [4.173]	90 [3.543]	40 [1.575]	106 [4.173]	82 [3.228]	41 [1.614]	18 [0.709]	φ 6.8 [0.268] (Thru hole) Counterbore φ 11 [0.433] Depth 7 [0.276]	
50 [1.969]	66 [2.598]	150 [5.906]	62 [2.441]	148 [5.827]	42 [1.654]	120 [4.724]	110 [4.331]	44 [1.732]	130 [5.118]	100 [3.937]	50 [1.969]	22 [0.866]	φ 8.6 [0.339] (Thru hole) Counterbore φ 14 [0.551] Depth 9 [0.354]	
63 [2.480]	76 [2.992]	162 [6.378]	72 [2.835]	160 [6.299]	52 [2.047]	132 [5.197]	122 [4.803]	44 [1.732]	144 [5.669]	120 [4.724]	60 [2.362]	24 [0.945]	φ 8.6 [0.339] (Thru hole) Counterbore φ 14 [0.551] Depth 9 [0.354]	

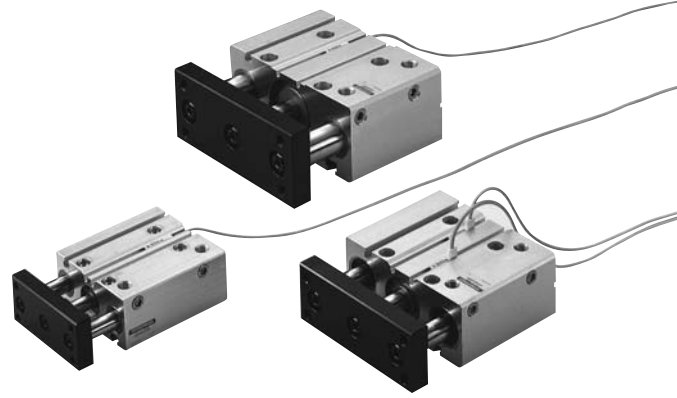
Note: The V dimension shows the side connection port location.

Bore size	Code	Z	AA	AB	AC	AD	AE	AF
		12 [0.472]	M5×0.8 Depth 8 [0.315]	6 [0.236]	6 [0.236]	M5×0.8	M4×0.7	M4×0.7 Depth 8 [0.315]
16 [0.630]	M5×0.8 Depth 11 [0.433]	8 [0.315]	8 [0.315]	M5×0.8	M5×0.8	M5×0.8 Depth 10 [0.394]	13 [0.512]	
20 [0.787]	M6×1 Depth 12 [0.472]	12 [0.472]	10 [0.394]	Rc1/8	M6×1	M6×1 Depth 12 [0.472]	17 [0.669]	
25 [0.984]	M6×1 Depth 12 [0.472]	13 [0.512]	12 [0.472]	Rc1/8	M6×1	M6×1 Depth 12 [0.472]	18 [0.709]	
32 [1.260]	M8×1.25 Depth 16 [0.630]	16 [0.630]	16 [0.630]	Rc1/8	M8×1.25	M8×1.25 Depth 16 [0.630]	26 [1.024]	
40 [1.575]	M8×1.25 Depth 16 [0.630]	16 [0.630]	16 [0.630]	Rc1/8	M8×1.25	M8×1.25 Depth 16 [0.630]	22 [0.866]	
50 [1.969]	M10×1.5 Depth 20 [0.787]	20 [0.787]	20 [0.787]	Rc1/4	M10×1.5	M10×1.5 Depth 20 [0.787]	29 [1.142]	
63 [2.480]	M10×1.5 Depth 20 [0.787]	20 [0.787]	20 [0.787]	Rc1/4	M10×1.5	M10×1.5 Depth 20 [0.787]	29 [1.142]	

Bore size	Code	T-slot		BA	BB	BC	BD	BE	BF	BG	BH
		A1	B1								
12 [0.472]	M3×0.5	M4×0.7	3.3 [0.130]	5.8 [0.228]	3 [0.118]	1.5 [0.059]	4.3 [0.169]	7.3 [0.287]	3.5 [0.138]	2.5 [0.098]	
16 [0.630]	M4×0.7	M4×0.7	4.3 [0.169]	7.3 [0.287]	3.5 [0.138]	1.5 [0.059]	4.3 [0.169]	7.3 [0.287]	3.5 [0.138]	3 [0.118]	
20 [0.787]	M4×0.7	M5×0.8	4.3 [0.169]	7.3 [0.287]	4 [0.157]	3 [0.118]	5.3 [0.209]	8.3 [0.327]	4.5 [0.177]	3 [0.118]	
25 [0.984]	M4×0.7	M5×0.8	4.3 [0.169]	7.3 [0.287]	4 [0.157]	3 [0.118]	5.3 [0.209]	8.3 [0.327]	4.5 [0.177]	3 [0.118]	
32 [1.260]	M5×0.8	M5×0.8	5.3 [0.209]	8.3 [0.327]	4.5 [0.177]	3 [0.118]	5.3 [0.209]	8.3 [0.327]	4.5 [0.177]	3 [0.118]	
40 [1.575]	M5×0.8	M6×1	5.3 [0.209]	8.3 [0.327]	4.5 [0.177]	3 [0.118]	6.3 [0.248]	10.3 [0.406]	5.5 [0.217]	3 [0.118]	
50 [1.969]	M5×0.8	M8×1.25	5.3 [0.209]	8.3 [0.327]	4.5 [0.177]	3 [0.118]	8.3 [0.327]	13.3 [0.524]	7 [0.276]	4.5 [0.177]	
63 [2.480]	M5×0.8	M8×1.25	5.3 [0.209]	8.3 [0.327]	4.5 [0.177]	3 [0.118]	8.3 [0.327]	13.3 [0.524]	7 [0.276]	4.5 [0.177]	

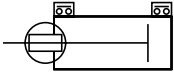
JIG CYLINDERS WITH GUIDES

Sensor Switches

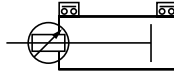


Symbols

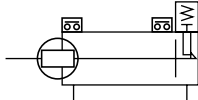
● Standard cylinder



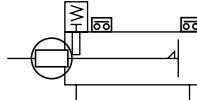
● Stroke adjusting cylinder



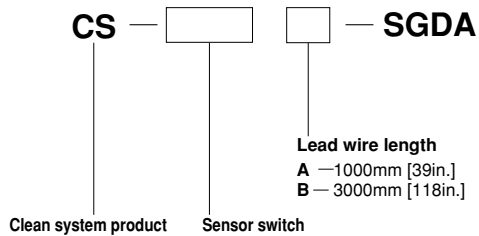
● End keep cylinder (Head side)



● End keep cylinder (Rod side)



Order Codes (for Sensor Switches Only)



ZE135 — Solid state type with indicator lamp	DC10V~28V	Horizontal lead wire
ZE235 — Solid state type with indicator lamp	DC10V~28V	Vertical lead wire
ZE101 — Reed switch type without indicator lamp	DC5V~28V AC85~115V	Horizontal lead wire
ZE201 — Reed switch type without indicator lamp	DC5V~28V AC85~115V	Vertical lead wire
ZE155 — Solid state type with indicator lamp	DC4.5V~28V	Horizontal lead wire
ZE255 — Solid state type with indicator lamp	DC4.5V~28V	Vertical lead wire
ZE102 — Reed switch type with indicator lamp	DC10V~28V AC85~115V	Horizontal lead wire
ZE202 — Reed switch type with indicator lamp	DC10V~28V AC85~115V	Vertical lead wire

● For details of sensor switches, see p.111 ~ 121.

Minimum Cylinder Strokes When Mounting Sensor Switches

● Solid state type

Bore size mm [in.]	2 pcs. mounting ^{Note}		1 pc. mounting
	1-surface mounting	2-surface mounting	
12~63 [0.472~2.480]	10 [0.394]		5 [0.197]

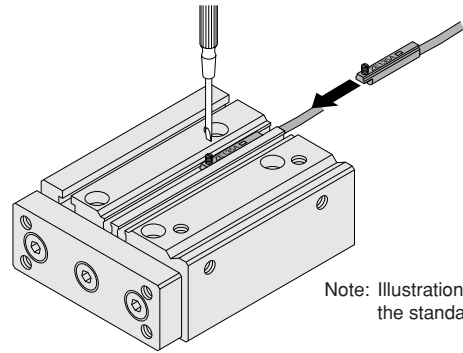
Note: Two pcs. mounting is possible at stroke 5mm.
Be aware, however, that overlapping may occur.

● Reed switch type

Bore size mm [in.]	2 pcs. mounting		1 pc. mounting
	1-surface mounting	2-surface mounting	
12~63 [0.472~2.480]	10 [0.394]		10 [0.394]

Moving Sensor Switch

- Loosening the mounting screw allows the sensor switch to be moved along the switch mounting groove on the cylinder body.
- Tighten the mounting screw with a tightening torque of 0.1~0.2N·m [0.9~1.8in·lbf].



Note: Illustration shows the standard cylinder.

Sensor Switch Operating Range, Response Differential, and Maximum Sensing Location

● Operating range: ℓ

The distance the piston travels in one direction, while the switch is in the ON position.

● Response differential: C

The distance between the point where the piston turns the switch ON and the point where the switch is turned OFF as the piston travels in the opposite direction.

● Solid state type

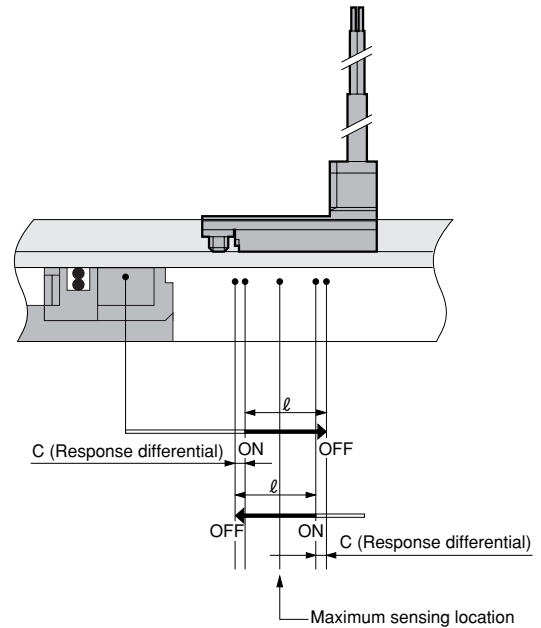
Item	Bore size							
	12 [0.472]	16 [0.630]	20 [0.787]	25 [0.984]	32 [1.260]	40 [1.575]	50 [1.969]	63 [2.480]
Operating range: ℓ	2~4 [0.079~0.157]	2~5 [0.079~0.197]	3.5~7.5 [0.138~0.295]	4~8 [0.157~0.315]	3~7 [0.118~0.276]	3.5~7.5 [0.138~0.295]	3.5~7.5 [0.138~0.295]	4~8.5 [0.157~0.335]
Response differential: C	1.0 [0.039] or less							
Maximum sensing location ^{Note}	6 [0.236]							

Note: The maximum sensing location is the distance from the end of the switch on the opposite side of the lead wire.
Remark: The above table shows reference values.

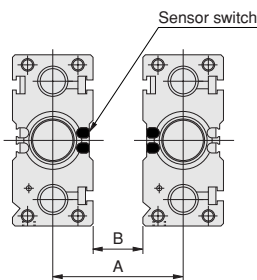
● Reed switch type

Item	Bore size							
	12 [0.472]	16 [0.630]	20 [0.787]	25 [0.984]	32 [1.260]	40 [1.575]	50 [1.969]	63 [2.480]
Operating range: ℓ	5.5~8 [0.217~0.315]	6.5~9 [0.256~0.354]	10~13 [0.394~0.512]	11.5~15 [0.453~0.591]	9~11.5 [0.354~0.453]	10~13.5 [0.394~0.531]	10.5~14.5 [0.413~0.571]	11~15.5 [0.433~0.610]
Response differential: C	1.0 [0.039] or less		1.5 [0.059] or less					
Maximum sensing location ^{Note}	10 [0.394]							

Note: The maximum sensing location is the distance from the end of the switch on the opposite side of the lead wire.
Remark: The above table shows reference values.



When Mounting Cylinders with Sensor Switches in Close Proximity



When mounting cylinders in close proximity, install the cylinder so that it exceeds the values in the table below.

The end plates are the same direction

Bore size	Solid state type		Reed switch type		mm [in.]
	A	B	A	B	
12	33 [1.299]		28 [1.102]		0 [0]
16	37 [1.457]	5 [0.197]	32 [1.260]		
20	45 [1.772]		40 [1.575]		
25	50 [1.969]		42 [1.654]		
32	56 [2.205]	8 [0.315]	48 [1.890]		
40	62 [2.441]		54 [2.126]		
50	78 [3.071]	12 [0.472]	66 [2.598]		
63	88 [3.465]		76 [2.992]		

The end plates are the opposite direction

Bore size	Solid state type		Reed switch type		mm [in.]
	A	B	A	B	
12	34 [1.339]		28 [1.102]		0 [0]
16	38 [1.496]	6 [0.236]	32 [1.260]		
20	46 [1.811]		40 [1.575]		
25	54 [2.126]		42 [1.654]		
32	60 [2.362]	12 [0.472]	48 [1.890]		
40	66 [2.598]		54 [2.126]		
50	84 [3.307]	18 [0.709]	66 [2.598]		
63	94 [3.701]		76 [2.992]		

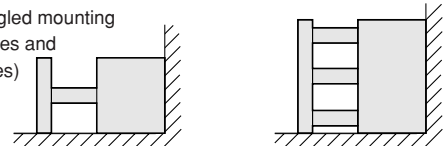
Mounting and Removing Sensor Switches

In Jig Cylinders with Guides of $\phi 12 \sim \phi 63$, be aware that sensor switches cannot be mounted or removed when strokes of 10mm [0.394in.] or shorter installed in the application shown below.

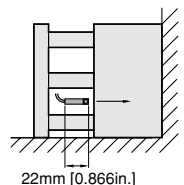
Bottom mounting



Right angled mounting (2 surfaces and 3 surfaces)



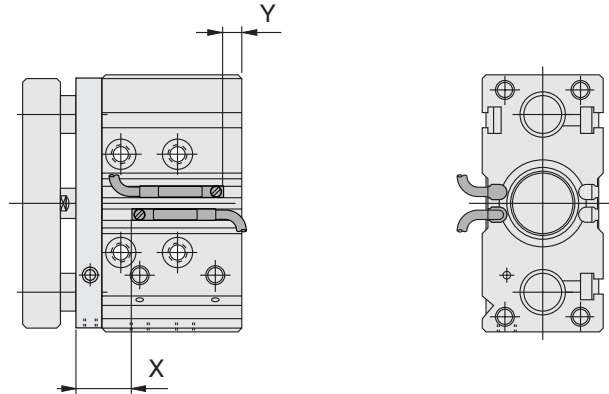
※ For strokes of 20mm [0.787in.] or longer, sensor switches can be mounted and removed when the plate (rods extend) is extended.



Mounting Location of End of Stroke Detection Sensor Switch

When the sensor switch is mounted in the locations shown in the diagram below (figures in the tables are reference values), the magnet comes to the maximum sensing location of the sensor switch at the end of the stroke.

● Jig cylinders with guides



■ Solid state type

mm [in.]

Code \ Bore size	12 [0.472]	16 [0.630]	20 [0.787]	25 [0.984]	32 [1.260]	40 [1.575]	50 [1.969]	63 [2.480]
X	19.5 [0.768]	21 [0.827]	24 [0.945]	26 [1.024]	25 [0.984]	26.5 [1.043]	26.5 [1.043]	26.5 [1.043]
Y	3.5 [0.138]	4.5 [0.177]	10 [0.394]	10 [0.394]	13 [0.512]	15.5 [0.610]	18.5 [0.728]	18.5 [0.728]

■ Reed switch type

mm [in.]

Code \ Bore size	12 [0.472]	16 [0.630]	20 [0.787]	25 [0.984]	32 [1.260]	40 [1.575]	50 [1.969]	63 [2.480]
X	15.5 [0.610]	17 [0.669]	20 [0.787]	22 [0.866]	21 [0.827]	22.5 [0.886]	22.5 [0.886]	22.5 [0.886]
Y	0 [0]	0 [0]	6 [0.236]	6 [0.236]	9 [0.354]	11.5 [0.453]	14.5 [0.571]	14.5 [0.571]