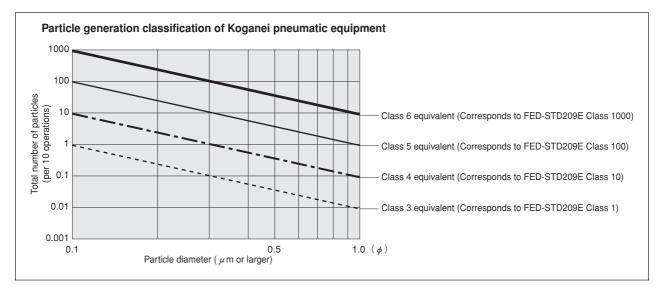
Koganei Clean System products provide complete support for the maintenance of a clean environment inside the cleanroom.

Koganei Clean System products meet the needs of the ultra-clean production environment. In everything from actuators and valves to air preparation and auxiliary equipment, anti-corrosion materials processing and other Koganei-developed design concepts serve to prevent particle contamination within the cleanroom. These perfectly designed mechanisms, which resolve even the slightest leaks to the outside during operations, have already won a high level of reliability.

Koganei Cleanliness

KOGANG

There is currently no standard in JIS or elsewhere for methods of evaluating cleanliness for pneumatic equipment in the cleanroom specifications. Therefore, to measure the effects of cleanroom contamination by pneumatic equipment, Koganei has decided to use "number of particles generated per 10 operations," rather than particle density. Koganei has also developed classifications for application classes in cleanroom, based on JIS and other upper limit density tables, and on the company's own experience.



Remarks: 1. In the above table, product performance in terms of the number of particles generated per 10 operations is expressed as the upper limit of particles corresponding to the equivalent JIS or ISO class.

- 2. In the above table, values in the JIS, ISO, and FED-STD upper limit density tables are calculated as upper density per liter.
- 3. The classes shown are clean levels as classified in JIS and ISO.

From the above definitions, the Koganei clean level classes can be viewed as the level of average contamination per liter of surrounding air over a period of 10 operations in cleanroom. Air ventilation in cleanrooms is usually faster than 1 cycle per minute, and clean volumetric capacity is usually larger than 1 liter, which should provide a sufficient safety margin in practice.

Caution: The above conclusions are based on an ideal situation in which air ventilation is being implemented. For specific cases where air ventilation is not ensured, caution is needed since the clean classes cannot be maintained.

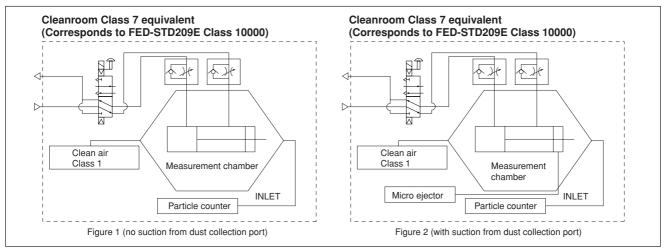
The clean system diagrams shown here are for Class 5 equivalent products. For Class 4 or Class 3 equivalent products, consult us.

Koganei has therefore specified its in-house measurement methods, to conduct evaluations on the cleanroom rating.

The number of particles of the Air Cylinder Cleanroom Specification is measured as shown in the method below.

1. Measurement conditions

1-1 Test circuit: Figure 1 (no suction), Figure 2 (with suction)



1-2 Operating conditions of tested cylinder

Operating frequency: 1Hz

Average speed: 500mm/s [20in./sec.] Applied pressure: 0.5MPa [73psi.] Suction condition: Microejector ME05, Primary side: 0.5MPa [73psi.] applied, Tube: ϕ 6 [0.236in.] Mounting direction: Vertical Chamber volume: 8.3 ℓ [0.293ft³]

2. Particle counter

Manufacturer/model: RION/KM20 Suction flow rate: 28.3 ℓ /min [1ft³/min.] Particle diameter: 0.1 μ m, 0.2 μ m, 0.3 μ m, 0.5 μ m, 0.7 μ m, 1.0 μ m

3. Measurement method

3-1 Confirmation of number of particles in the measurement system

Under the conditions in the above 1 and 2, using a particle counter to measure the sample for 9 minutes without operating the measurement sample, and confirmed the measured number of particle is 1 piece or less.

3-2 Measurement under operation

Under the conditions in the above1 and 2, operating the measurement sample for 36 minutes, and measured the total values in the latter half of 18 minutes test.

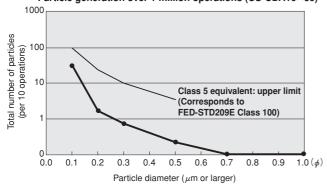
3-3 Reconfirmation

Performed the measurement in 3-1 again, to reconfirm the number of particles in the measurement system.

4. Measurement results

Cleanroom specification Jig Cylinder (no suction from dust collection port)

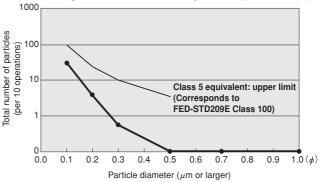
Particle generation over 1 million operations (CS-CDA16×30)



Cleanroom specification

Slim Cylinder (with suction from dust collection port)





For "safety precautions" listed in the Clean System Product Drawings, see the materials below.

- \bullet For actuators, see "Safety Precautions" on p. 45 of the Actuators General Catalog .
- For valves, see "Safety Precautions" on p. 31 of the Valves General Catalog.
- For air treatment and auxiliary equipment, see "Safety Precautions" on p.31 of the General Catalog of Air Treatment, Auxiliary, Vacuum.

LEAN YSTEM TWIN ROD CYLINDERS φ 6 Double Acting Type

Symbol



Specifications

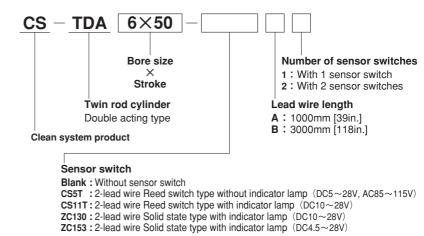
Bore size mm [in.]		6 [0.236]
Media		Air
Mounting type		Side mount
Operating pressure	e range MPa [psi.]	0.3~0.7 [44~102]
Proof pressure MPa [psi.]		1.03 [149]
Operating temperature range °C [°F]		0~60 [32~140]
Operating speed ra	ange mm/s [in./sec.]	100~300 [3.9~11.8]
Cushion		None
Lubrication		Not required
Non-rotating accur	acy	±0.45°
Derteize	Supply and exhaust port	M5×0.8
Port size	Dust collection port	M5×0.8

Bore Size and Stroke

		mm [in.]
Bore size	Standard strokes	Maximum available stroke
6 [0.236]	10, 20, 30, 40, 50	70

Note: Consult us for delivery of cylinders with strokes exceeding the standard.

Order Codes



• For details of sensor switches, see p.111 \sim 121.

Remarks: 1. In the twin rod cylinder, a magnet for sensor switch is built-in. 2. Two sensor holders (one for the A surface and one for the B surface) come

with 1 sensor switch.

Mass

					g [oz.]
	Bore size			Additional mass	
		Zero stroke mass Note1	Additional mass of each 10mm	Mass of 1 sensor switch Note2	
	mm [in.]		[0.394in.] stroke	CS5T,CS11T,ZC130,ZC153	
6 [0.236]	Standard specification	68 [2.40]	12 [0.42]	A:20 [0.71] B:50 [1.76]	

Notes: 1. The above table is for the standard strokes.

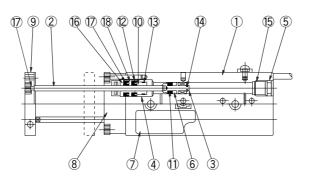
2. There are 2 types of sensor switch lead wire lengths.

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

with 2 sensor switches (**ZC130**), $68+(12\times5)+(20\times2)=168g$ [5.93oz.]

Calculation example: The mass for bore size of 20mm and stroke of 50mm





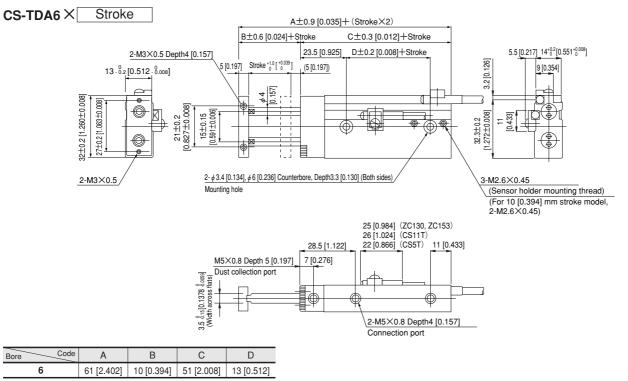
Major Parts and Materials

No.	Parts	Materials
1	Cylinder body	Aluminum alloy (anodized)
2	Piston	Aluminum alloy (chromic acid anodic oxide coating)
3	Cover	Aluminum alloy (anodized)
4	Wear ring	Plastic
(5)	Piston rod	Steel (chrome plated)
6	Housing gasket	Synthetic rubber (NBR)
7	Housing	Aluminum alloy (chromic acid anodic oxide coating)
8	Seal holder	Aluminum alloy
9	Rod bushing	Plastic
10	Piston seal	Synthetic rubber (NBR)
1	Plug	Aluminum alloy (anodized)
12	Magnet	Plastic magnet
13	E-ring	Stainless steel
14	Washer	Steel (nickel plated)
15	End plate	Mild steel (nickel plated)
16	Rod seal	
17	Dust leak prevention seal	Synthetic rubber
18	Plug gasket	

Seals

Parts	Rod seal	Piston seal	Plug gasket	Housing gasket	Dust leak prevention seal
Q'ty Bore mm	2	2	2	2	2
6	MYR-4	PWP-6	1.5×1.5	1×6	MYR-4

Dimensions mm [in.]

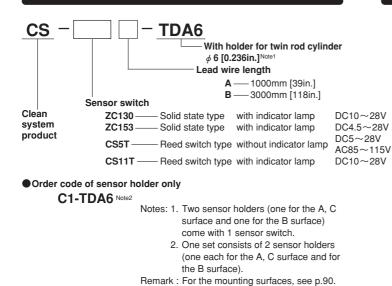


Note: The counterbore depth is measured from the upper surface of the body.

TWIN ROD CYLINDERS ϕ 6

Sensor Switches

Order Codes



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

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.

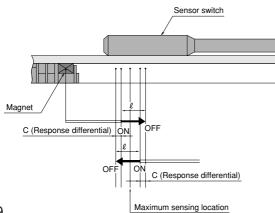
Response differential: C

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.

								mm [in.]
	CS5T			CS11T]	ZC13	0□, ZC	153
Operating range	Response differential	Maximum sensing location		Response differential	Maximum sensing location	Operating range	Response differential	Maximum sensing location
5~7 [0.197~ 0.276]	1.3 [0.051] or less	7 [0.276]	5~7 [0.197~ 0.276]	1.3 [0.051] or less	10.5 [0.413]	2~3 [0.079~ 0.118]	0.3 [0.012] or less	8.5 [0.335]

Note: The maximum sensing location is the distance from the end of the switch opposite to the lead wire.

Remark: The above table shows reference values.

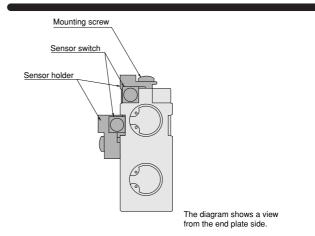


Minimum Cylinder Strokes When Using Sensor Switches

			mm [in.]	
2	pcs. mountir	ıg		
1-surface	mounting	2 ourfage	1 pc.	
One groove on each A surface and B surface	Two grooves on B surface	mounting	mounting	
40 [1.575]	10 [0.394]	10 [0.394]	10 [0.394]	
40 [1.575]	10 [0.394]	10 [0.394]	10 [0.394]	
	1-surface One groove on each A surface and B surface 40 [1.575]	1-surface mountingOne groove on each A surface and B surfaceTwo grooves on B surface40 [1.575]10 [0.394]	One groove on each A surface and B surface Two grooves on B surface 2-surface mounting 40 [1.575] 10 [0.394] 10 [0.394]	

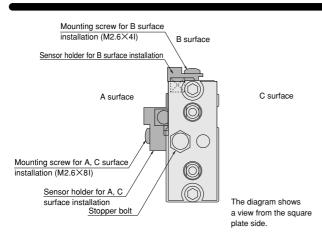
Remark : For the mounting surfaces, see p.90.

Moving Sensor Switch



- Loosening mounting screw allows the sensor switch to be moved freely in the cylinder's axial direction.
- Tighten the mounting screw with a tightening torque of 0.3N·m [2.7in·lbf] or less.

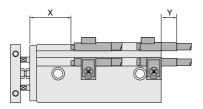
Sensor Switch Mounting Surface



- Mounting on either 1 or 2 surfaces of the A, B, or C surfaces allows detection of the rod side and head side stroke end.
- Since 2 sensor holders and 2 mounting screws (one for the A, C surface and one for the B surface) are provided for each sensor switch, use them in accordance with the required mounting surface.

Mounting Location of End of Stroke Detection Sensor Switch

When the sensor switch is mounted in the locations shown below (the 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.

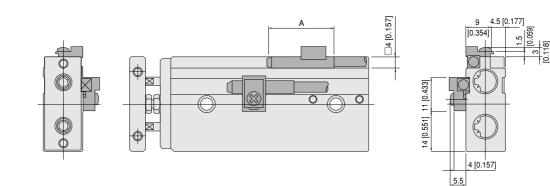


			mm [in.]
Mounting		Sensor sv	witch type
location	CS5T	CS11T	ZC130 , ZC153
х	23 [0.906]	19.5 [0.768]	22 [0.866]
Y	6 [0.236]	6.5 [0.256]	8 [0.315]

Remark: Mount the sensor switch so that the surface showing the model marking faces up.

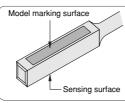
[0.217]

Dimensions of Sensor Switch mm [in.]



(Sensor switch Code	CS5T□	CS11T	ZC130	ZC153
	Α	22 [0.866]	26 [1.024]	25 [0	.984]

Caution when mounting



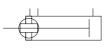
In the ZC type sensor switches, the opposite side from the model marking surface is the sensing surface side. Mount it so that the cylinder magnet comes to the sensing surface side.

EM TWIN ROD CYLINDERS B SERIES

Double Acting Type

Symbol

KOGANEI





Specifications

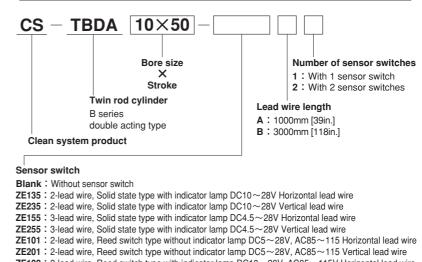
Item	Bore size mm [in.]	10 [0.394]	16 [0.630]	20 [0.787]	25 [0.984]	32 [1.260]
Operating type				Air		
Media				Side mount		
Operating pressure	ange MPa [psi.]	0.15~0.7 [22~102]		0.1~0.7 [15~102]	
Proof pressure	MPa [psi.]			1.03 [149]		
Operating temperatu	re range °C [°F]	0~60 [32~140]				
Operating speed ran	ge mm/s [in./sec.]	100~300 [3.9~11.8]				
Cushion		None Rubber bumper				
Lubrication		Not required				
Non-rotating accuracy		$\pm 0.4^{\circ}$ $\pm 0.3^{\circ}$				
Port size	Supply port		M5	×0.8		Rc1/8
Port Size	Dust collection port			M5×0.8		

Bore Size and Stroke

		mm [in.]
Bore size	Standard strokes	Maximum available stroke
10 [0.394]	10, 20, 30, 40, 50, 60, 70	140
16 [0.630]	10, 20, 30, 40, 50, 60, 70, 80, 90, 100	200
20 [0.787]	10, 20, 30, 40, 50, 60, 70, 80, 90, 100	200
25 [0.984]	10, 20, 30, 40, 50, 60, 70, 80, 90, 100	200
32 [1.260]	10, 20, 30, 40, 50, 60, 70, 80, 90, 100	200

Remark: Consult us for delivery of cylinders with strokes exceeding the standard.

Order Codes

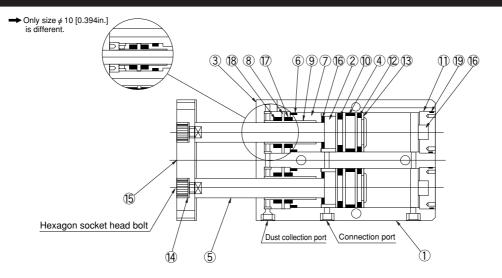


ZE102 : 2-lead wire, Reed switch type with indicator lamp DC10~28V, AC85~115V Horizontal lead wire ZE202 : 2-lead wire, Reed switch type with indicator lamp DC10~28V, AC85~115V Vertical lead wire

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

Remark: In the standard cylinder, the magnet for sensor switch is built-in.

Inner Construction and Major Parts



Major Parts and Materials

Seals

No.	Parts	Materials
1	Cylinder body	Aluminum alloy (anodized)
2	Piston	Aluminum alloy (chromic acid anodic oxide coating)
3	Cover	Aluminum alloy (anodized)
4	Wear ring	Plastic
(5)	Piston rod	Steel (chrome plated)
6	Housing gasket	Synthetic rubber (NBR)
7	Housing	Aluminum alloy (chromic acid anodic oxide coating)
8	Seal holder	Mild steel (nickel plated)
9	Rod bushing	Plastic
10	Piston seal	Synthetic rubber (NBR)
1	Plug	Aluminum alloy (anodized)
(12)	Magnet	Plastic magnet
(13)	E-ring	Stainless steel
14	Washer	Steel (nickel plated)
(15)	End plate	Mild steel (nickel plated)
16	Bumper	ϕ 10, 16, 20, 25 : Synthetic rubber, ϕ 32 : Urethane
17	Rod seal	
18	Dust leak prevention seal	Synthetic rubber (NBR)
(19	Plug gasket	

Parts	Rod seal	Piston seal	Plug gasket	Housing gasket	Dust leak prevention seal
Q'ty Bore mm	2	2	2	2	2
10	PIU-6	PWP-10	1.5×9	1.5×9	PIU-6
16	PIU-8	PWP-16	1.5×15	1.5×13	PIU-8
20	PIU-10	PWP-20	1.5×19.5	1.5×17	PIU-10
25	PIU-12	PWP-25	1.5×23	1.5×22	PIU-12
32	PIU-16	PWP-32	2×31.5	2×28.5	PIU-16

Mass

					g [oz.]			
	Bore size		Additional mass					
	mm [in.]	Zero stroke mass Note1	Zero stroke mass Note1 Additional mass of each 10mm		sor switch Note2			
			[0.394in.] stroke	ZE	ZE			
10 [0.394]		124 [4.37]	18 [0.63]					
16 [0.630]		235 [8.29]	27 [0.95]					
20 [0.787]	Standard specification	393 [13.86]	36 [1.27]	15 [0.53]	35 [1.23]			
25 [0.984]		584 [20.60]	51 [1.80]					
32 [1.260]		1329 [46.88]	93 [3.28]					

Notes: 1. The above table is for the standard strokes.

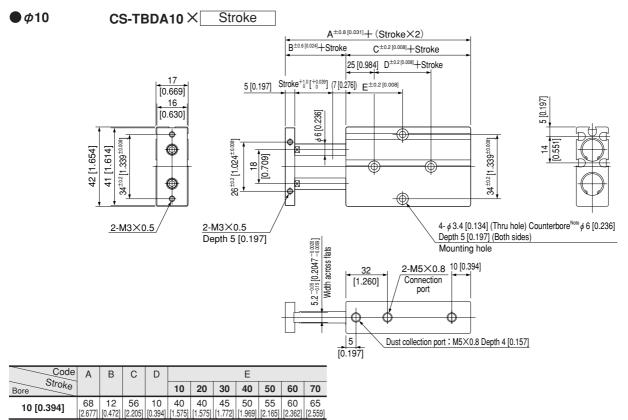
2. There are 2 types of sensor switch lead wire lengths.

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

Calculation example: The mass for bore size of 20mm and stroke of 60mm with 2 sensor switches (**ZC135A**),

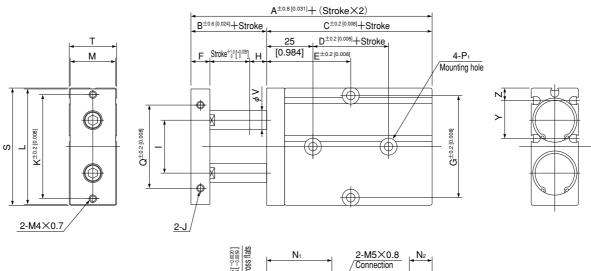
393+(36×<u>6</u>)+(15×2)=639g [22.54oz.]

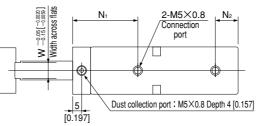
Stroke 10



Note: The counterbore depth is measured from the upper surface of the body.

● *ϕ*16~*ϕ*25 CS-TBDA Bore size X Stroke



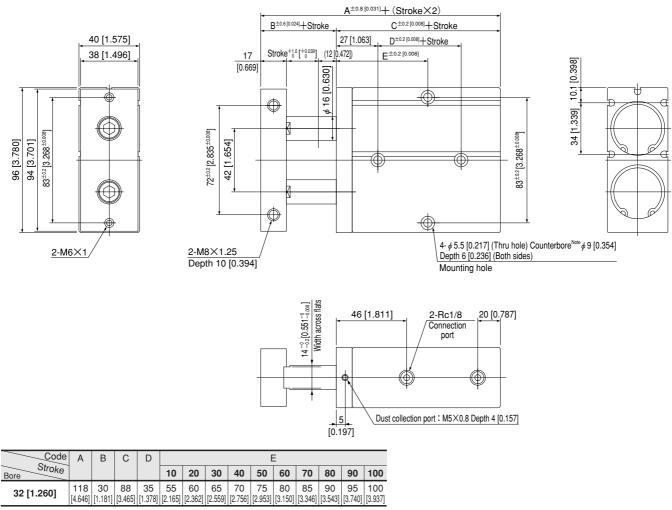


Code	A	В	С	D					E	1					F	G	Н	I	J	Κ	L	М	N 1	N2
Bore]				10	20	30	40	50	60	70	80	90	100										
16 [0.630]	78 [3.071]	15 [0.591]	63 [2.480]	20 [0.787]	40 [1.575]	45 [1.772]	50 [1.969]	55 [2.165]	60 [2.362]	65 [2.559]	70 [2.756]	75 [2.953]	80 [3.150]	85 [3.346]	8 [0.315]	47 [1.850]	7 [0.276]	24 [0.945]	M4×0.7 Depth 5 [0.197]	47 [1.850]	53 [2.087]	20 [0.787]	32 [1.260]	10 [0.394]
20 [0.787]	88 [3.465]	20 [0.787]	68 [2.677]	20 [0.787]	45 [1.772]	45 [1.772]	50 [1.969]	55 [2.165]	60 [2.362]	65 [2.559]	70 [2.756]	75 [2.953]	80 [3.150]	85 [3.346]	10 [0.394]	55 [2.165]	10 [0.394]	28 [1.102]	M4×0.7 Depth 5 [0.197]	55 [2.165]	61 [2.402]	24 [0.945]	35 [1.378]	12 [0.472]
25 [0.984]	91 [3.583]	19 [0.748]	72 [2.835]	30 [1.181]	50 [1.969]	50 [1.969]	55 [2.165]	60 [2.362]	65 [2.559]	70 [2.756]	75 [2.953]	80 [3.150]	85 [3.346]	90 [3.543]	10 [0.394]	66 [2.598]	9 [0.354]	34 [1.339]	M4×0.8 Depth 6 [0.236]	66 [2.598]	72 [2.835]	29 [1.142]	40 [1.575]	12 [0.472]

Bore Code	P1 ^{Note}	Q	S	Т	V	W	Y	Ζ
16 [0.630]	ϕ 4.5 [0.177] (Thru hole) Counterbore ϕ 8 [0.315] Depth 5.5 [0.217] (Both sides)	34 [1.339]	54 [2.126]	21 [0.827]	8 [0.315]	-		
20 [0.787]	ϕ 4.5 [0.177] (Thru hole) Counterbore ϕ 8 [0.315] Depth 5.5 [0.217] (Both sides)	44 [1.732]	62 [2.441]	25 [0.984]	10 [0.394]	8.2 [0.323]	20 [0.787]	6.8 [0.268]
25 [0.984]	ϕ 4.5 [0.177] (Thru hole) Counterbore ϕ 9 [0.354] Depth 6 [0.236] (Both sides)	56 [2.205]	73 [2.874]	30 [1.181]	12 [0.472]		22.5 [0.886]	

Note: The counterbore depth is measured from the upper surface of the body.

• ¢32 CS-TBDA32 × Stroke



Note: The counterbore depth is measured from the upper surface of the body.

TWIN ROD CYLINDERS B SERIES

Sensor Switches

Order Codes

<u>CS</u> –		- TBDA	-					
Clean system product		A : 1000mm [39in]		er B series h mounting screw $ \sim \phi 32 [1.260in.]$				
p	Sensor s	witch						
	ZE135 —	2-lead wire, Solid state type with indicator lamp	DC10~28V	Horizontal lead wire	ZE155 —	3-lead wire, Solid state type with indicator lamp	DC4.5~28V	Horizontal lead wire
	ZE235 —	2-lead wire, Solid state type with indicator lamp	DC10~28V	Vertical lead wire	ZE255 —	_ 3-lead wire, Solid state type with indicator lamp	DC4.5~28V	Vertical lead wire
	ZE101	2-lead wire, Reed switch type without indicator lamp	DC5~28V AC85~115V	Horizontal lead wire	ZE102 —	2-lead wire, Reed switch type with indicator lamp	DC10~28V AC85~115V	Horizontal lead wire
	ZE201 —	2-lead wire, Reed switch type without indicator lamp	DC5~28V AC85~115V	Vertical lead wire	ZE202 —	2-lead wire, Reed switch type with indicator lamp	DC10~28V AC85~115V	Vertical lead wire
	_							

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

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

surface IC

● 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.



©surface

Ψ C (Response differential) ÓΝ OFF OF ΟŃ C (Response differential) Maximum sensing location

Solid state type

Solid state	e type					mm [in.]	
Item	Bore size Mounting surface	10 [0.394]	10 [0.394] 16 [0.630] 20 [0.787]			32 [1.260]	
Operating range 1	A and C surface	2.5	~6 [0.098~0.2	236]	2.5~6.5 [0.098~0.256]	5~12 [0.197~0.472]	
Operating range : <i>l</i>	B surface	2.5~4 [0.098~0.157]	2~4.5 [0.0	79~0.177]	2.5~5.5 [0.098~0.217]	4~9 [0.157~0.354]	
Response differential : C	_	1.0 [0.039] or less	1.0 [0.039] or less 1.2 [0.047] or less			2.0 [0.079] or less	
Maximum sensing location Note	_		6 [0.236]				

Remark: The above table shows reference values.

Note: The maximum sensing location is the distance from the end of the switch opposite to the lead wire.

Reed switch type

•					mm [m.]
Bore size	10 [0.394]	16 [0.630]	20 [0.787]	25 [0.984]	32 [1.260]
Operating range : ℓ	6~8.5 [0.2	36~0.335]	6~8 [0.236~0.315]	7~9.5 [0.276~0.374]	12~16.5 [0.472~0.650]
Response differential : C		1.5 [0.05	9] or less	2.5 [0.098] or less	
Maximum sensing location Note			10 [0.394]		

Remark: The above table shows reference values.

Note: The maximum sensing location is the distance from the end of the switch opposite to the lead wire.

When mounting cylinders in close proximity,

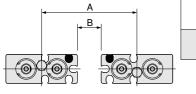
install the cylinder so that it should exceed the values in the table below.

Status of mounting in close proximity	Code	Bore size Type	10 [0.394]	16 [0.630]	20 [0.787]	25 [0.984]	32 [1.260]
A		Solid state type	53 [2.087]	66 [2.598]	73 [2.874]	87 [3.425]	119 [4.685]
B	A	Reed switch type	48 [1.890]	60 [2.362]	68 [2.677]	81 [3.189]	109 [4.291]
	-	Solid state type	11 [0.433]	12 [0.472]	11 [0.433]	14 [0.551]	23 [0.906]
	В	Reed switch type		6 [0.236]		8 [0.315]	13 [0.512]

Sensor switch

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	Solid state type	47 [1.850]	59 [2.323]	65 [2.559]	77 [3.031]	107 [4.213]					
Α	Reed switch type	42 [1.654]	54 [2.126]	62 [2.441]	73 [2.874]	96 [3.780]					
	Solid state type	5 [0.	197]	3 [0.118]	4 [0.157]	11 [0.433]					
в	Reed switch type		0 [0]								

A	Α	Solid state type	28 [1.102]	33 [1.299]	36 [1.417]	44 [1.732]	65 [2.559]
B H	A	Reed switch type	22 [0.866]	27 [1.063]	30 [1.181]	37 [1.457]	53 [2.087]
	в	Solid state type	11 [0.433]	12 [0.472]	11 [0.433]	14 [0.551]	25 [0.984]
	в	Reed switch type	5 [0.197]	6 [0.236]	5 [0.197]	7 [0.276]	13 [0.512]
	•	Solid state type	21 [0.827]	24 [0.945]	25 [0.984]	30 [1.181]	44 [1.732
B B	A	Reed switch type	17 [0.669]	21 [0.827]	25 [0.984]	30 [1.181]	40 [1.575
	_	Solid state type	4 [0.157]	3 [0.118]	0	[0]	4 [0.157]
	В	Reed switch type			0 [0]		

Remark: For mounting in configurations other than the above, consult us.

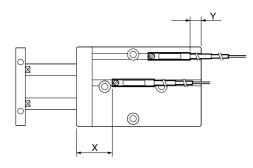
When the sensor switch is mounted in the locations shown below (figures in the tables are reference values), the magnet comes to the maximum sensing location of the sensor switch at the end of the stroke.

mm [in.]

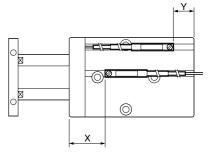
62 [2.441]

4 [0.157]

When the lead wire is pulled from the head side.



When the lead wire of the head side detection sensor switch only is pulled from the rod side.



Solid state type

	е туре				mm [in.]
Code Bore	10 [0.394]	16 [0.630]	20 [0.787]	25 [0.984]	32 [1.260]
Х	37.5 [1.476]	43.5 [1.713]	47.5 [1.870]	52.5 [2.067]	62 [2.441]
Y	6.5 [0.256]	7.5 [0.295]	8.5 [0.335]	7.5 [0.295]	14 [0.551]

Reed switch type

Reed switch type mm [in.]											
Code Bore	10 [0.394]	16 [0.630]	20 [0.787]	25 [0.984]	32 [1.260]						
Х	33.5 [1.319]	39.5 [1.555]	43.5 [1.713]	48.5 [1.909]	58 [2.283]						
Y	2.5 [0.098]	3.5 [0.138]	4.5 [0.177]	3.5 [0.138]	10 [0.394]						

Solid state type Code Bore 10 [0.394] 16 [0.630] 20 [0.787] 25 [0.984] 32 [1.260] Х 37.5 [1.476] 43.5 [1.713] 47.5 [1.870] 52.5 [2.067] Υ -3.5 [-0.138] -2.5 [-0.098] -1.5 [-0.059] -2.5 [-0.098]

Reed switch type

Reed switch type mm [ir					
Code Bore	10 [0.394]	16 [0.630]	20 [0.787]	25 [0.984]	32 [1.260]
Х	33.5 [1.319]	39.5 [1.555]	43.5 [1.713]	48.5 [1.909]	58 [2.283]
Y	0.5 [0.020]	1.5 [0.059]	2.5 [0.098]	1.5 [0.059]	8 [0.315]