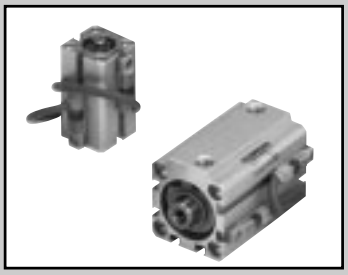
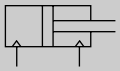


Compact cylinder Double acting heat resistance type with cylinder switch

SSD-T1L Series

● Bore size: ϕ16, ϕ20, ϕ25, ϕ32, ϕ40, ϕ50, ϕ63

JIS symbol



RoHS

Specifications

Descriptions	SSD-T1L						
Bore size mm	ϕ16	ϕ20	ϕ25	ϕ32	ϕ40	ϕ50	ϕ63
Actuation	Double acting						
Working fluid	Compressed air						
Max. working pressure MPa	1.0						
Min. working pressure MPa	0.1						0.05
Withstanding pressure MPa	1.6						
Ambient temperature ℃	5 to 150 (Note 1)						
Port size	M5			Rc1/8		Rc1/4	
Stroke tolerance mm	+1.0 0						
Working piston speed mm/s	50 to 500						50 to 300
Cushion	None						
Lubrication (Note 2)	—						

Note 1: External leakage occurs gradually after 500 thousand cycles at ambient temperature 150 ℃.
Note 2: Apply heat proof grease periodically.

Stroke length

Bore size (mm)	Standard stroke length (mm)	Max. stroke length (mm)	Min. stroke length (mm)		
			With 1 switch	With 2 switches	With 3 switches
ϕ16	10, 15, 20, 25, 30	30	10	20	35
ϕ20			15	25	45
ϕ25	10, 20, 30, 40, 50	50		20	40
ϕ32			10		
ϕ40					
ϕ50					
ϕ63	10, 20, 30, 40, 50				

Note: Custom stroke length is available per 1 mm increment. (7 mm or less not available) The total length is the same dimension as the next longer standard stroke length.

Cylinder switch specifications

Descriptions	Reed 2-wire	
	ET0H, ET0V	
Applications	Relay, programmable controller	
Load voltage	12/24 VDC	110 VAC
Load current	5 to 50 mA	7 to 20 mA
Internal voltage drop	2.4 V or less	
Leakage current	0 mA	
Light	LED ON lighting (note)	
Lead wire	Heat proof fluorine insulation sheath electric wire 1 m (0.5SQ (100/0.08) annealed copper wire x 2C)	
Insulation resistance	100 MΩ and over at 500 VDC megger	
Withstand voltage	No failure at 1000 VAC for 1 minute	
Max. shock resistance	294 m/s^2	
Ambient temperature	-10 to 150℃	
Protective structure	IEC standards IP67, JIS C0920 (water tight type)	

(Note)For indicator light, LED is used.
Using this product at high temperature gradually decreases visibility.
Even LED does not light, the switch output circuit works correctly because the switch output line is separated.

How to order

SSD-T1L - 16 ( ) - 10 - ET0H - D - N - LB - I

- SSD-T1L: Double acting heat resistance type with small heat-resistance switch
- Ⓐ Bore size
- Ⓑ Port thread type
- Ⓒ Stroke length
- Ⓓ Switch model no.
- Ⓔ Switch quantity
- Ⓕ Option Note 1
- Ⓖ Mounting bracket Note 2 Note 3
- Ⓗ Accessory Note 4

Symbol	Descriptions
Ⓐ Bore size (mm)	
16	ϕ 16
20	ϕ 20
25	ϕ 25
32	ϕ 32
40	ϕ 40
50	ϕ 50
63	ϕ 63
Ⓑ Port thread type	
Blank	Rc thread
NN	NPT thread (ϕ 32 and over) (custom order)
GN	G thread (ϕ 32 and over) (custom order)
Ⓒ Stroke length (mm)	
Refer to the table below for stroke length.	
Ⓓ Switch model no.	
ET0H	Reed, 2-wire, Axial lead wire
ET0V	Reed, 2-wire, Radial lead wire
Ⓔ Switch quantity	
R	One on rod side
H	One on head side
D	2
Ⓕ Option	
Blank	Rod end female thread
N	Rod end male thread
M	Piston rod material (stainless steel)
Ⓖ Mounting bracket	
LB	Axial foot
LB2	Axial foot (compact type)
CB	Clevis (pin and snap ring attached)
CB2	Clevis (compact type) (pin and snap ring attached)
FA	Rod end flange type
FB	Head end flange type
Ⓗ Accessory (permissible if rod end male thread "N" was selected.)	
I	Rod eye
I2	Rod eye (compact type)
Y	Rod clevis (pin and snap ring attached)
Y2	Rod clevis (compact type) (pin and snap ring attached)

⚠ Caution for model No. selection

Note 1: ϕ12 to ϕ25 piston rod material is stainless steel as standard. The snap ring is changed from copper to stainless steel. When the male thread rod end is selected, stainless steel nuts are provided.
Note 2: Mounting bracket is attached at shipment.
Note 3: When selecting LB2, FA, piston rod projecting dimension WF differs from standard. Refer to the dimensions on pages 939 to 940.
Note 4: "I" and "Y" can not be selected at the same time.
Note 5: Refer to Ending 89 about custom specifications of rod end form.
Note 6: Refer to pages 720 to 723 for variation and option combination.

<Example of model number>

SSD-T1L-16-10-ET0H-D-N

Model: Compact cylinder
Double acting heat resistance type with cylinder switch
Ⓐ Bore size : ϕ16
Ⓑ Port thread type : Rc thread
Ⓒ Stroke length : 10 mm
Ⓓ Switch model no. : Reed switch ET0H, lead wire length 1 m
Ⓔ Switch quantity : 2
Ⓕ Option : Rod end male thread

How to order switch

SW - ET0H

Switch model no.
(Item D above)

(Stroke length table)

Stroke length (mm)		Applicable bore size						
		ϕ16	ϕ20	ϕ25	ϕ32	ϕ40	ϕ50	ϕ63
Standard stroke length	5	●	●	●	●	●	●	●
	10	●	●	●	●	●	●	●
	15	●	●	●	●	●	●	
	20	●	●	●	●	●	●	●
	25	●	●	●	●	●	●	
	30	●	●	●	●	●	●	●
	40			●	●	●	●	●
	50			●	●	●	●	●
Min. stroke length (mm) Note 1		7 (15)		10 (20)		7 (15)		
Max. stroke length (mm)		30				50		
Custom stroke length Note 2		Per 1 mm increment						

Note 1: Value in ( ) is the type with two switches.
Refer to page 774 for switch quantity and min. stroke length.
Note 2: The total length is the same as the next larger standard stroke.

How to order mounting bracket

Bore size (mm) / Mounting bracket	ϕ16	ϕ20	ϕ25	ϕ32	ϕ40	ϕ50	ϕ63
Foot (LB)	SSD-LB-16	SSD-LB-20	SSD-LB-25	SSD-LB-32	SSD-LB-40	SSD-LB-50	SSD-LB-63
Foot (LB2)	SSD-LB2-16	SSD-LB2-20	SSD-LB2-25	SSD-LB2-32	SSD-LB2-40	SSD-LB2-50	SSD-LB2-63
Flange (FA/FB)	SSD-FA-16	SSD-FA-20	SSD-FA-25	SSD-FA-32	SSD-FA-40	SSD-FA-50	SSD-FA-63
Clevis (CB)	SSD-CB-16	SSD-CB-20	SSD-CB-25	SSD-CB-32	SSD-CB-40	SSD-CB-50	SSD-CB-63
Clevis (CB2)	SSD-CB2-16	SSD-CB2-20	SSD-CB2-25	SSD-CB2-32	SSD-CB2-40	SSD-CB2-50	SSD-CB2-63

Note 1: 2 pcs./set is applied for a foot type mounting bracket.