SCP\*2 CMK2 CMA2 SCM SCG SCA2 SCS CKV2 CA/OV2 SSD CAT MDC2 MVC SMD2 MSD\* FC\* STK ULK\* JSK/M2 JSG JSC3 USSD USC JSB3 LMB STG STS/L LCS LCG LCM LCT LCY STR2 UCA2 HCM HCA SRL2 SRG

SRM SRT MRL2

MRG2

SM-25 CAC3

UCAC

MFC
SHC
GLC
Ending

Compact cylinder Double acting fine speed type

# SSD-F/SSD-KF Series

• Bore size:  $\phi$  12,  $\phi$  16,  $\phi$  20,  $\phi$  25,  $\phi$  32,  $\phi$  40,

 $\phi$  50, $\phi$  63, $\phi$  80, $\phi$  100

JIS symbol





#### **Specifications**

Item		S	SD-F, S	SSD-LI	F (with	n swite	ch)			SSD-KF, SSD-KLF (with switch)									
Bore size mm	φ12 ·	φ16   φ20	φ25	φ32	φ40	φ50	φ63	φ80	φ100	φ12	φ16	φ20	φ25	φ32	φ40	φ50	φ63	φ80	φ100
Actuation									ouble	actin	g								
Working fluid								C	ompre	ssed a	air								
Max. working pressure MPa		1.0																	
Min. working pressure MPa		0.1 0.05 0.1									0.05								
Withstanding pressure MPa		1.6																	
Ambient temperature °C									5 to	60									
Port size		M5		Rc	1/8	Ro	:1/4	Ro	3/8		Ν	<i>l</i> 15		Ro	:1/8	Rc	1/4	Rc	3/8
Stroke tolerance mm					+1.0 0										+2.0 0				
Working piston speed mm/s									1 to	200									
Cushion		None Rubber cushion																	
Lubrication								. 1	Not av	ailable	9								
Allowable absorbed energy J	0.004	0.01 0.01	0.021	0.025	0.092	0.1	0.12	0.27	0.56	0.04	0.09	0.16	0.16	0.40	0.63	0.98	1.56	2.51	3.92

#### Stroke length

Model no.	Bore size (mm)	Standard stroke length (mm)	Max. stroke length (mm)	Min. stroke length (mm)
	φ 12,φ 16,φ20	5, 10, 15, 20, 25, 30	30	
SSD-F SSD-LF	φ 25, φ 32, φ 40, φ 50	5, 10, 15, 20, 25, 30, 40, 50	50	
	φ 63, φ 80, φ 100	5, 10, 20, 30, 40, 50	50	1
	φ 12,φ 16,φ 20	5, 10, 15, 20, 25, 30, 40, 50	100	
SSD-KF SSD-KLF	φ 25, φ 32, φ 40, φ 50	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90,100	150	
	φ 63, φ 80, φ 100	10, 20, 30, 40, 50, 60, 70, 80, 90,100	200	

Note 1: Custom stroke length is available per 1mm increment. Note that the total length is the same as the next longer standard stroke length.

Note 2: Refer to the following table when a switch is used.

#### Switch quantity and min. stroke length (mm)

#### ●SSD-LF

Switch quantity	1	2	3	4	5
Switch model no.  Bore size (mm)	T*	T*	T*	Т*	T*
<sub>_</sub> φ12	5	5	25	-	-
<i>φ</i> 16	5	5	25	-	-
φ20	5	5	-	-	-
φ25	5	5	35	50	-
φ32	5	5	35	50	-
φ40	5	5	35	50	-
φ50	5	5	35	50	-
φ63	5	5	35	50	-
φ80	5	5	35	50	-
<i>φ</i> 100	5	5	35	50	-

Note: Stroke less than 10mm is not available for 2 color indicator, off-delay, strong magnetic field proof, or types with T1\* or T8\* switch.

# SSD-F/SSD-KF Series

#### Specifications

SCP\*2 CMK2 CMA2 SCM SCG SCA2 SCS CKV2 CA/OV2

MDC2 MVC SMD2 MSD\*

FC\*

ULK\*

JSK/M2 JSG JSC3 USSD USC JSB3 LMB STG STS/L LCS LCG LCM LCT LCY STR2 UCA2

HCM
HCA
SRL2
SRG
SRM
SRT
MRL2
MRG2
SM-25
CAC3
UCAC
RCC2
MFC
SHC
GLC

#### ● SSD-KLF

Switch quantity	1	2	3	4	5
Switch model no.  Bore size (mm)	Т*	T*	T*	T*	T*
<i>φ</i> 12	5	5	25	-	-
<i>φ</i> 16	5	5	25	•	-
φ 20	5	5	35	50	65
φ 25	5	5	35	50	65
φ 32	5	5	35	50	65
φ 40	5	5	35	50	65
φ 50	5	5	35	50	65
φ 63	5	5	35	50	65
φ 80	5	5	35	50	65
<i>φ</i> 100	5	5	35	50	65

Note: Stroke less than 10 mm is not available for 2 color indicator, off-delay, strong magnetic field proof, or types with T1\* or T8\* switch.

#### Switch specifications

●1 color/2 color indicator/strong magnetic field proof

220 VAC is available for T0/T5 switches. Consult with CKD for working conditions.

T COIOI/2 COIOI IIIdiC	220	to VAC is available for 10/15 switches. Consult with CKD for working conditions													
	Proximit	Proximity 2-wire				wire			Re	eed 2-w	ire			Proximity 2-wire	
Item	T1H/T1V   T2H/T2V/ T2JH/T2JV   T2YH/T2YV		T3H/T3V	T3PH/T3PV (Custom order)	T3YH/T3YV	T0H/T0V		T5H/T5V		T8H/T8V		V	T2YD		
Applications	Programmable controller	Programmable		Programmable			Prograr	Programmable Programmable controlle		ole controller,	Programmable controller,		Programmable		
Applications	relay, small solenoid valve	conti	roller	controller, relay			controll	er, relay	relay, IC circuit (without light), serial connection			relay		controller	
Output method		-		NPN output	PNP output	NPN output				-					
Power voltage		-		10	to 28 V	DC	-								
Load voltage	85 to 265 VAC	10 to 3	0 VDC	30 \	/DC or	less	12/24 VDC	110 VAC	5/12/24 VDC	110 VAC	12/24 VDC	110 VAC	220 VAC	24 VDC ±10%	
Load current	5 to 100 mA	5 to 20 m/	A (Note 1)	100 mA	or less	50 mA or less	5 to 50 mA	7 to 20 mA	50 mA or less	20 mA or less	5 to 50 mA	7 to 20 mA	7 to 10 mA	5 to 20 mA	
Light	LED	LED	Red/green LED	LED	Green LED	Red/green LED	LE	D	Without inc	dicator light	LED			Red/green LED	
Ligiti	(ON lighting)	(ON lighting)	(ON lighting)	(ON lighting)	(ON lighting)	(ON lighting)	(ON li	ghting)	Without int	alcator light	(ON lighting)		(ON lighting)		
Leakage current	1 mA or less with 100 VAC	1 m / /	or less	10	40 A an lasa			0 1						1 mA or less	
Leakage Current	2 mA or less with 200 VAC	1 111/4 (	01 1622	10	10 μA or less			0 mA						I IIIA OF IESS	

#### With preventive maintenance output

Itom		Proximity 3-wire	Proximity 4-wire	Proximity 3-wire	Proximity 4-wire					
Item		T2YFH/V	T3YFH/V	T2YMH/V	T3YMH/V					
Appli	cations	Programmable	Programmable	Programmable	Programmable					
Applic	cations	controller	controller, relay	controller	controller, relay					
Outpu	ut method		NPN (	N output						
Light	Installation position adjustment		Red/green LED (ON lighting)							
Ľ	Preventive maintenance output	-		Yellow LED	(ON lighting)					
_	Power voltage	-	10 to 28 VDC	=	10 to 28 VDC					
Regular output	Load voltage	10 to 30 VDC	30 VDC or less	10 to 30 VDC	30 VDC or less					
Regular output	Load current	5 to 20 mA	50 mA or less	5 to 20 mA	50 mA or less					
	Leakage current	1 mA or less	10 $\mu$ A or less	1.2 mA or less	10 μA or less					
rive	Load voltage		30 VDC	or less						
ven ntens utpu	Load current	20 mA or less	50 mA or less	5 to 20 mA or less	50 mA or less					
Load voltage 30 VDC or less Load current 20 mA or less 50 mA or less 5 to 20 mA or less 5 Leakage current 10 $\mu$ A or less										

Note 1: Refer to Ending 1 for other switches.

Note 2: Max. load current above: 20 mA at 25 °C . The current will be lower than 20 mA if ambient temperature around switch is higher than 25 °C . (5 to 10 mA at 60 °C)

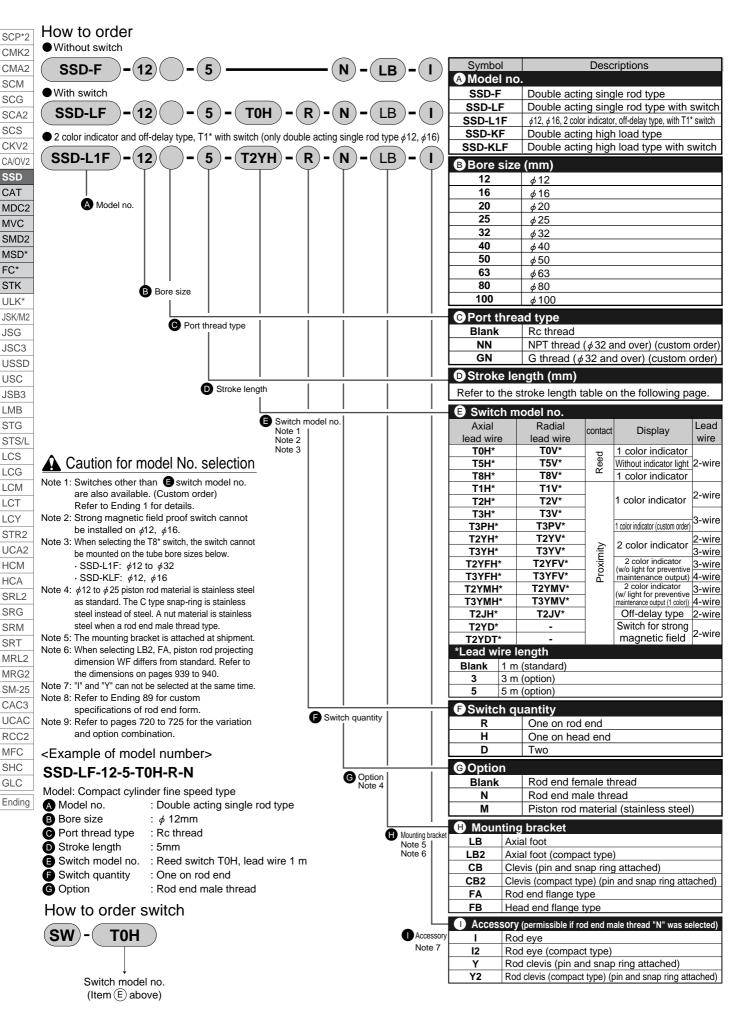
### Clean room specifications (catalog No. CB-033SA)

Dust preventive structure for inside the clean room

#### **Dimensions**

**CKD** 

## SSD-F/SSD-KF Series



#### How to order

SCP\*2

#### (Stroke length table)

#### **SSD-F**

					Appli	icable	e bore	e size					
Stroke	length (mm)	<i>φ</i> 12	<i>φ</i> 16	<i>φ</i> 20	<i>φ</i> 25	<i>φ</i> 32	<i>φ</i> 40	<i>φ</i> 50	<i>φ</i> 63	<i>φ</i> 80	φ100		
	5	•	•	•	•	•	•	•	•	•	•		
ngtł	10	•	•	•	•	•	•	•	•	•	•		
<u> </u>	15	•	•	•	•	•	•	•					
rok	20	•	•	•	•	•	•	•	•	•	•		
d st	25	•	•	•	•	•	•	•					
ıdar	30	•	•	•	•	•	•	•	•	•	•		
Standard stroke length	40				•	•	•	•	•	•	•		
"	50				•	•	•	•	•	•	•		
Min. stro	ke length (mm) Note 1	1											
Max. s	troke length (mm)		30 50										
Custom	stroke length Note 2				Per	1 mn	n incre	ement					

Note 1: The 1 color indicator is not available with a stroke less than 5mm, 2 color indicator type, off delay, strong magnetic field proof, or 10mm or shorter type with T1\* or T8\* switch is not available.

Refer to page 802 for switch quantity and min. stroke length.

Note 2: The total length is the same as the next longer standard stroke length.

#### SSD-KF

	TXI				Appli	cable	bore	size				
Stroke	length (mm)	φ12	<i>φ</i> 16	φ 20	φ25	φ32	φ40	φ50	φ63	φ80	φ100	
	5	•	•	•	•	•	•	•				
	10	•	•	•	•	•	•	•	•	•	•	
	15	•	•	•	•	•	•	•				
th Jth	20	•	•	•	•	•	•	•	•	•	•	
Standard stroke length	25	•	•	•	•	•	•	•				
ķe	30	•	•	•	•	•	•	•	•	•	•	
strc	40	•	•	•	•	•	•	•	•	•	•	
ard	50	•	•	•	•	•	•	•	•	•	•	
and	60				•	•	•	•	•	•	•	
Šŧ	70				•	•	•	•	•	•	•	
	80				•	•	•	•	•	•	•	
	90				•	•	•	•	•	•	•	
	100				•	•	•	•	•	•	•	
Min. stro	ke length (mm) Note 1	1										
Max. s	troke length (mm)		100			15	50			200		
	stroke length Note 2				Per	1 mm	n incre	ment				

Note 1: The 1 color indication type is not available with a stroke less than 5mm, and the 2 color indication type or strong magnetic field proof type with a stroke less than 10mm are not available.

Refer to page 802 for switch quantity and min. stroke length.

Note 2: The total length is the same as the next longer standard stroke length.

### How to order mounting bracket

Bore size (mm)  Mounting bracket	20	25	32	40	50	63	80	100
Foot (LB)	SSD-LB-20	SSD-LB-25	SSD-LB-32	SSD-LB-40	SSD-LB-50	SSD-LB-63	SSD-LB-80	SSD-LB-100
Foot (LB2)	SSD-LB2-20	SSD-LB2-25	SSD-LB2-32	SSD-LB2-40	SSD-LB2-50	SSD-LB2-63	SSD-LB2-80	SSD-LB2-100
Flange (FA/FB)	SSD-FA-20	SSD-FA-25	SSD-FA-32	SSD-FA-40	SSD-FA-50	SSD-FA-63	SSD-FA-80	SSD-FA-100
Clevis (CB)	SSD-CB-20	SSD-CB-25	SSD-CB-32	SSD-CB-40	SSD-CB-50	SSD-CB-63	SSD-CB-80	SSD-CB-100
Clevis (CB2)	SSD-CB2-20	SSD-CB2-25	SSD-CB2-32	SSD-CB2-40	SSD-CB2-50	SSD-CB2-63	SSD-CB2-80	SSD-CB2-100

Note 1: Foot type mounting bracket is a two-piece/set.

MFC

SHC

GLC