

Compact cylinder Double acting non-rotating type

SSD-M Series

• Bore size: ϕ 12, ϕ 16, ϕ 20, ϕ 25 ϕ 32, ϕ 40, ϕ 50, ϕ 63

JIS symbol





Specifications

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
RCC2
MFC
SHC
GLC
Ending

Descriptions		SSD-M SSD-ML (with switch)										
Bore size mm	φ12	<i>φ</i> 16	<i>φ</i> 20	<i>φ</i> 25	<i>φ</i> 32	φ40	<i>φ</i> 50	<i>∲</i> 63				
Actuation				Do	uble actii	ng						
Working fluid				Con	npressed	air						
Max. working pressure MPa					1.0							
Min. working pressure MPa				0.1				0.05				
Withstanding pressure MPa		1.6										
Ambient temperature °C				-10 to 6	60 (no fre	ezing)						
Port size		N	15		Rc	1/8	Rc	c1/4				
Otrodos talamanas assess					+1.0							
Stroke tolerance mm	0											
Working piston speed mm/s				50 to 500)			50 to 300				
Cushion	None											
Lubrication	Not required (when lubricating, use turbine oil ISO VG3											
Revolvable angle tolerance ±2° ±1.5° ±1°							,					
Allowable energy absorption J	0.004	0.01	0.016	0.021	0.025	0.092	0.1	0.12				

Stroke length

	Bore size (mm)	Standard stroke length (mm)	Max. stroke length (mm)	Min. stroke length (mm)
	<u></u> φ12			
	<i>∮</i> 16	5, 10, 15, 20, 25, 30	30	
1	<i>φ</i> 20			
1	<i>φ</i> 25			1
+	<i>φ</i> 32	5, 10, 15, 20, 25, 30, 40, 50	50	
-	φ40	5, 10, 15, 20, 25, 50, 40, 50	30	
	<i>φ</i> 50			
	<i>φ</i> 63	5, 10, 20, 30, 40, 50	50	

Note 1) Custom stroke length is available per 1mm increment. The same dimension as next longer standard stroke length applies to the total length.

Note 2) Refer to the following table for the type with switch. For 2 color indicator, off-delay, strong magnetic field, T1* or T8* switch, the stroke length less than 10mm is not available.

Switch quantity and min. stroke length (mm)

		_ , ,			
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	-	-
<i>φ</i> 20	5	5	-	-	-
φ25	5	5	35	50	-
φ32	5	5	35	50	-
φ40	5	5	35	50	-
φ50	5	5	35	50	-
<i>φ</i> 63	5	5	35	50	-

Note: For 2 color indicator, off-delay, strong magnetic field, T1* or T8* switch, the stroke length less than 10mm are not available.

SSD-M Series

Specifications

SCP*2

CMK2 CMA2 SCM SCG

Switch specifications

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

*The T0/T5 switch can be used with 220 VAC . Consult with CKD for working conditions.

•		,			Consult Will StD for Working Conditions.						ng contantionio.		
	Proximit	ty 2 wire		Proximity 3 wire			Reed 2 wire						
Descriptions	T1H/T1 V	T2H/T2V/ T2JH/T2JV	T3H/T3V T3PH/T3PV (Custom order	T3YH/T3YV	ТОН	/T0V	T5H	/T5V	-	T8H/T8	V	T2YD	
Applications	Programmable controller	Programmable	Programm	able	Prograi	mmable	ble Programmable controller, relay, IC circuit (without light),		Programmable controller and		Programmable		
Applications	relay, small solenoid valve	controller	controller,	elay	controll	er, relay	serial co	nnection		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 30 VDC	30 VDC 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 100mA	5 to 20mA (Note 1)	100mA or less	50mA or less	5 to 50mA	7 to 20mA	50mA or less	20mA or less	5 to 50mA	7 to 20mA	7 to 10mA	5 to 20mA	
Liabt	LED	LED Red/green	LED Green	Red/green LED	LE	ΞD	Without indicator light			LED		Red/green LED	
Light	(ON lighting)	(ON lighting) (ON lighting)	(ON lighting) (ON lighting)	(ON lighting)	(ON lig	(ON lighting)		ilicator light	(0	N lighti	ng)	(ON lighting)	
Laglaga aurrant	1mA or less with 100 VAC							0mA				1mA or less	
Leakage current	2mA or less with 200 VAC	1mA or less	10 μΑ 01 1	10 μA or less			UINA					I IIIA UI IESS	

With preventive maintenance output

D	nin tin n	Proximity 3 wire	Proximity 4 wire	Proximity 3 wire	Proximity 4 wire					
Desc	riptions	T2YFH/V	T3YFH/V	T2YMH/V	T3YMH/V					
Annli	actions	Programmable	Programmable	Programmable	Programmable					
Appli	cations	controller	controller, relay	controller	controller, relay					
Outp	ut method		NPN (output						
Light	Installation position adjustment section		Red/green LED (ON lighting)							
Ë	Preventive maintenance output	•	•	Yellow LED (ON lighting)						
	Power voltage	-	10 to 28 VDC	=	10 to 28 VDC					
ulai put	Load voltage	10 to 30 VDC	30 VDC or less	10 to 30 VDC	30 VDC or less					
Regular output	Load current	5 to 20mA	50mA or less	5 to 20mA	50mA or less					
	Leakage current	1mA or less	10 μA or less	1.2mA or less	10 μA or less					
t tree	Load voltage		30 VDC	or less						
Preventive maintenance output	Load current	20mA or less	50mA or less	5 to 20mA or less	50mA or less					
Pre mair o	Leakage current	10 μA or less								

Note 1: Refer to Ending 1 for other switches.

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

Cylinder weight table (weight with switch includes weight with two switches)

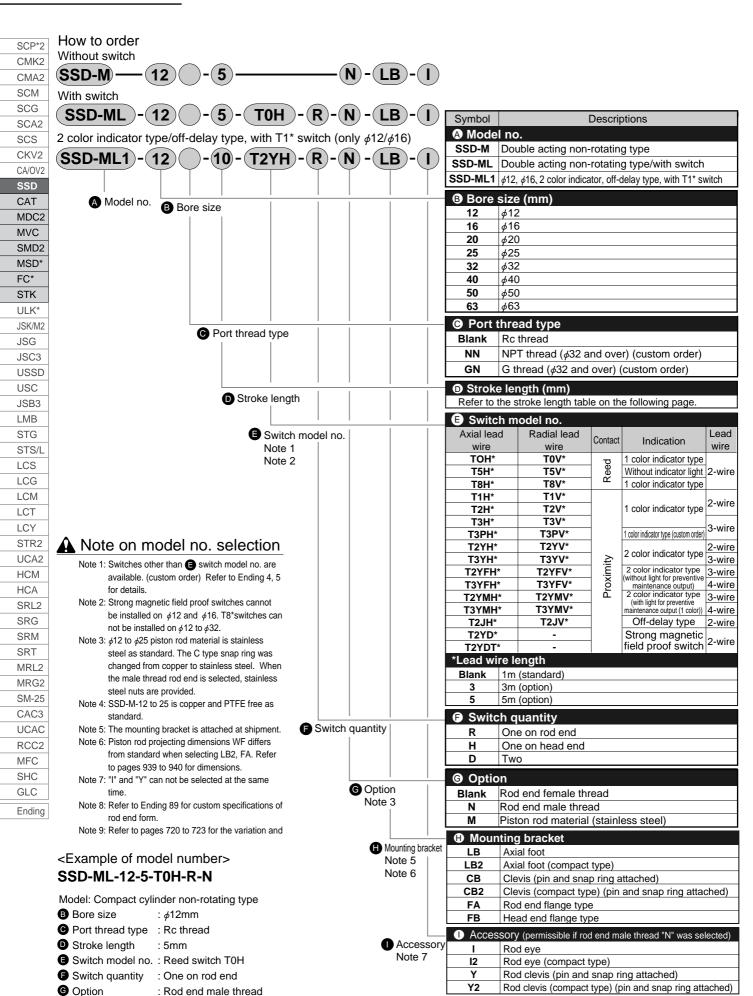
Stroke length (mm)		5	1	0	1	5	2	0	2	5	3	0	4	0	5	0
Bore size (mm)	w/o SW	w/ SW														
<i>φ</i> 12	44	94	52	94	61	103	69	111	78	120	80	122	-	-	-	-
<i>ϕ</i> 16	58	114	69	114	79	124	90	135	101	146	112	157	-	-	-	-
<i>φ</i> 20	76	131	88	163	101	176	114	189	126	201	139	214	-	-	ı	-
φ25	102	193	117	208	133	224	149	240	165	256	180	271	212	303	243	334
φ32	166	280	188	302	210	324	232	346	253	367	275	389	319	433	362	476
φ40	210	353	237	380	263	406	290	433	317	460	343	486	396	539	449	592
<i>φ</i> 50	341	535	383	577	425	619	467	661	509	703	552	746	636	830	720	914
<i>φ</i> 63	507	786	562	841	-	-	672	951	-	-	782	1061	893	1172	1003	1282

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 (Unit: g) SRG SRM SRT MRL2 MRG2 SM-25 CAC3 UCAC RCC2

MFC SHC GLC Ending

Compact cylinder Space saving structure

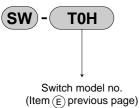
SSD-M Series



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How to order





(Stroke length table)

Otrodos	Lancette (acces)			App	licable	bore	size				
Stroke	length (mm)	φ12	φ16	φ20	φ25	φ32	φ40	φ50	φ63		
	5	•	•	•	•	•	•	•	•		
Standard stroke length	10	•	•	•	•	•	•	•	•		
<u>e</u>	15	•	•	•	•	•	•	•			
roke	20	•	•	•	•	•	•	•	•		
d st	25	•	•	•	•	•	•	•			
Idar	30	•	•	•	•	•	•	•			
Stan	40				•	•	•	•			
0)	50				•	•	•	•			
Min. stro	ke length (mm) Note 1	1									
Max. s	30 50										
Custom	stroke length Note 2			Р	er 1mm	incren	nent				

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 850 for switch installation 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	φ12	φ16	φ20	φ25	φ32	φ40	φ 5 0	φ63
Foot (LB)	SSD-LB-12	SSD-LB-16	SSD-LB-20	SSD-LB-25	SSD-LB-32	SSD-LB-40	SSD-LB-50	SSD-LB-63
Foot (LB2)	SSD-LB2-12	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-12	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-12	SSD-CB-16	SSD-CB-20	SSD-CB-25	SSD-CB-32	SSD-CB-40	SSD-CB-50	SSD-CB-63
Clevis (CB2)	SSD-CB2-12	SSD-CB2-16	SSD-CB2-20	SSD-CB2-25	SSD-CB2-32	SSD-CB2-40	SSD-CB2-50	SSD-CB2-63

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

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 RCC2 MFC

> Compact cylinder Space saving structure

SHC GLC Ending