SCP*2

Compact cylinder Double acting low speed type

SSD-O Series

Bore size: φ12, φ16, φ20, φ25, φ32, *φ* 40, *φ* 50, *φ* 63, *φ* 83, *φ* 100

JIS symbol







Specifications

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 SHC GLC Ending

Item				SSE SSE)-O)-OL (with sv	vitch)						
Bore size mm	φ12	φ16	φ20	φ25	φ32	φ40	φ50	φ63	φ80	φ100		
Actuation					Oouble acting)						
Working fluid				C	ompressed a	nir						
Max. working pressure MPa					1.0							
Min. working pressure MPa				0.1				0.05				
Withstanding pressure MPa	1.6											
Ambient temperature °C	-10 to 60 (no freezing)											
Port size		N	15		Rc	1/8	Rc	1/4	Ro	:3/8		
Stroke tolerance mm					+1.0 0							
Working piston speed mm/s					10 to 200							
Cushion					None							
Lubrication				ľ	Not available							
Allowable energy absorption J	0.004	0.01	0.016	0.021	0.025	0.092	0.1	0.12	0.27	0.56		

Stroke length

Bore size (mm)	Standard stroke length (mm)	Max. stroke length (mm)	Min. stroke length (mm)
_φ 12			
<i>φ</i> 16	5, 10, 15, 20, 25, 30	30	
φ20			
φ25			
φ32	5 40 45 00 05 00 40 50		1
φ40	5, 10, 15, 20, 25, 30, 40, 50	50	
φ50			
φ63			
φ80	5, 10, 20, 30, 40, 50	50	
100		_	

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)

Switch quantity	1	2	3	4	5
Switch model no. Bore size (mm)	T*	T*	T*	T*	T*
<i>φ</i> 12	5	5	25	-	-
φ16	5	5	25	ı	-
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	-
φ 100	5	5	35	50	-

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

Specifications

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

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 conditions.

										-					- 1
	Proximit	ty 2-wire)	Prox	imity 3-	wire			Re	ed 2-w	ire			Proximity 2-wire	
Item	T1H/T1V	T2H/T2V/ T2JH/T2JV	T2YH/T2YV	T3H/T3V	T3PH/T3PV (Custom order)	T3YH/T3YV	ТОН	/T0V	T5H/	/T5V	-	T8H/T8	V	T2YD	9
Applications	Programmable controller	Prograr	mmable	Pro	gramma	able	Prograi	mmable	Programmab	le controller,	Program	mable co	ontroller,	Programmable	, (
Applications	relay, small solenoid valve	cont	roller	cont	troller, r	elay	controll	er, relay	serial co	nnection		relay		controller	
Output method		-			PNP output	NPN output		-						(
Power voltage	-			10	10 to 28 VDC -										
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%	ó §
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	
Liabt	LED	LED	Red/green LED	LED	Green LED	Red/green LED	LE	ΕD	Without inc	licator light		LED		Red/green LEI	5 1
Light	(ON lighting)	(ON lighting)	(ON lighting)	(ON lighting)	(ON lighting)	(ON lighting)	(ON lig	ghting)	Williout inc	ilcator light	(0	N lightii	ng)	(ON lighting)	N
Lookogo ourrent	1 mA or less with 100 VAC	1 1	or looo	10	۸ ۵ 1					0 m 1				1 1 1	- 5
Leakage current	2 mA or less with 200 VAC	Ima	or less	10 μ A or less			0 mA							1 mA or less	

With preventive maintenance output

Item		Proximity 3-wire	Proximity 4-wire	Proximity 3-wire	Proximity 4-wire			
пеш		T2YFH/V	T3YFH/V	T2YMH/V	T3YMH/V			
المما	actions	Programmable	Programmable	Programmable	Programmable			
Аррііс	cations	controller	controller, relay	controller	controller, relay			
Outpu	ut method		NPN (output				
Light	Installation position adjustment		Red/green LED (ON lighting)					
Ľ	Preventive maintenance output	-	•	Yellow LED	(ON lighting)			
_	Power voltage	ı	10 to 28 VDC	•	10 to 28 VDC			
ula	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 μ A or less	1.2 mA or less	10 μ A or less			
ive	Load voltage		30 VDC	or less				
Preventive maintenance output	Load current	20 mA or less	50 mA or less	5 to 20 mA or less	50 mA 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: 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)

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

(Unit: g))		(Unit:
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STR2

UCA2

HCM HCA

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

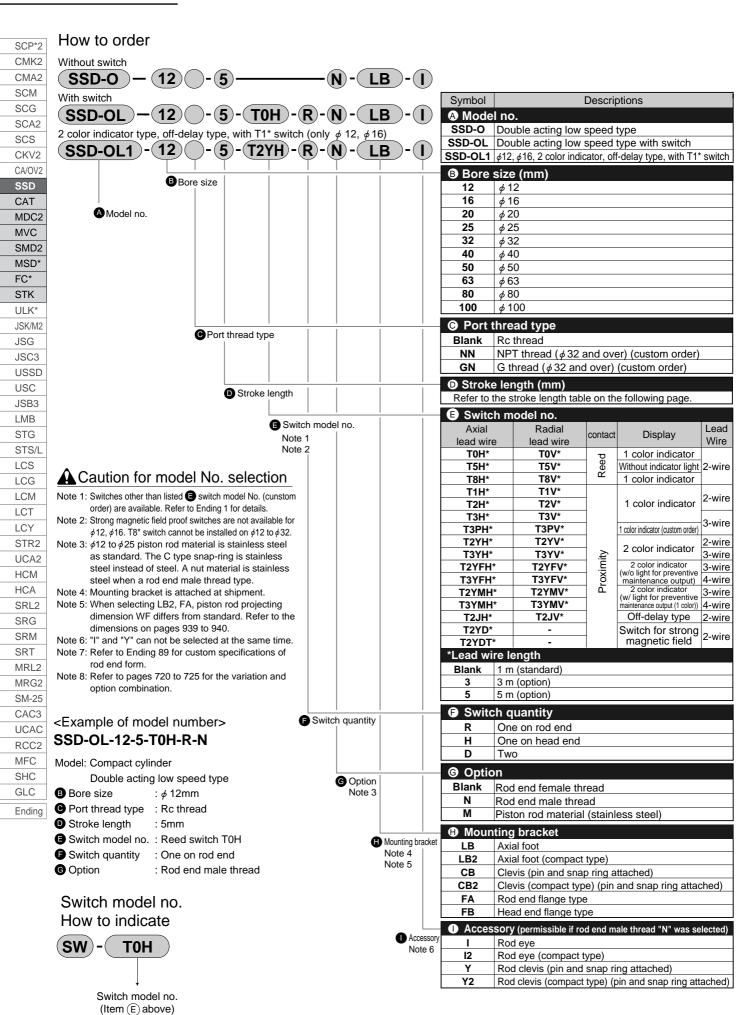
Stroke length (mm)	5	5	1	0	1	5	2	0	2	5	3	0	4	0	5	0
Bore size (mm)	w/o SW	w/ SW														
<i>φ</i> 12	36	86	44	86	53	95	61	103	70	112	72	114	-	-	-	-
<i>φ</i> 16	48	104	59	104	69	114	80	125	91	136	102	147	-	-	-	-
<u>φ</u> 20	63	118	75	150	88	163	101	176	113	188	126	201	-	-	-	-
φ25	87	178	102	193	118	209	134	225	150	241	165	256	197	288	228	319
<u></u> φ32	122	236	144	258	166	280	188	302	209	323	231	345	275	389	318	432
<i>φ</i> 40	183	326	210	353	236	379	263	406	290	433	316	459	369	512	422	565
<i>φ</i> 50	299	493	341	535	383	577	425	619	467	661	510	704	594	788	678	872
<i>φ</i> 63	452	731	507	786	-	-	617	896	-	-	727	1006	838	1117	948	1227
<i>φ</i> 80	841	1254	928	1341	-	-	1101	1514	-	-	1274	1687	1448	1861	1621	2034
φ100	1319	1886	1433	2000	-	-	1660	2227	-	-	1888	2455	2115	2682	2343	2910

Dimensions

It is the same as the double acting single rod type SSD Series. Refer to pages 743 to 745.

Compact cylinder
Space saving structure

SSD-O Series



CKD



How to order

(Stroke	lenath	table)
٨	Ottone	icrigii	i tabic

Otrestee	Langeth (many)				Appli	cable	bore	size				
Stroke	Stroke length (mm)		φ16	φ20	φ25	φ32	φ40	φ50	φ63	φ80	<i>φ</i> 100	
	5	•	•	•	•	•	•	•	•	•	•	
ngth	10	•	•	•	•	•	•	•	•	•	•	
<u>e</u>	15	•	•	•	•	•	•	•				
Standard stroke length	20	•	•	•	•	•	•	•	•	•	•	
	25	•	•	•	•	•	•	•				
dar	30	•	•	•	•	•	•	•	•	•	•	
itan	40				•	•	•	•	•	•	•	
O)	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	ment				

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 808 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	φ12	φ16	φ20	φ25	φ32	φ 40	φ50	φ63	φ80	φ100
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	SSD-LB-80	SSD-LB-100
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	SSD-LB2-80	SSD-LB2-100
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	SSD-FA-80	SSD-FA-100
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	SSD-CB-80	SSD-CB-100
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	SSD-CB2-80	SSD-CB2-100

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 НСМ HCA SRL2 SRG SRM SRT MRL2 MRG2 SM-25 CAC3 UCAC RCC2

> Compact cylinder Space saving structure

MFC SHC GLC