Compact cylinder High load type rubber-air cushioned

# SSD-K-\*C Series

• Bore size:  $\phi$  20,  $\phi$  25,  $\phi$  32,  $\phi$  40,  $\phi$  50,  $\phi$  63,  $\phi$  80,  $\phi$  100

JIS symbol







#### **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

STR2

UCA2
HCM
HCA
SRL2
SRG
SRM
SRT
MRL2
MRG2
SM-25
CAC3
UCAC

MFC

SHC

Ending

Opcomodions											
Descriptions		SSD-K									
Bore size mm	φ20	φ 25	φ 32	φ 40	φ 50	φ 63	φ 80	φ 100			
Actuation	Double acting										
Working fluid		Compressed air									
Max. working pressure MPa	a 1.0										
Min. working pressure MPa	MPa 0.25 0.2										
Withstanding pressure MPa	1.6										
Ambient temperature °C	-10 to 60 (no freezing)										
Port size		Rc	1/8		Rc	1/4	Rc	3/8			
Stroke tolerance mm		+2.0									
Choke tolerance min	0										
Working piston speed mm/s	50 to 500 50 to 300										
Cushion	Rubber-air cushion										
Lubrication		Not r	equired (wh	en lubricatin	g, use turbi	ne oil ISO V	G32.)				
Allowable absorbed energy J	0.16	0.16	0.40	0.63	0.98	1.56	2.51	3.92			

Stroke length

Bore size (mm)	Standard stroke length (mm)	Max. stroke length (mm)	Min. stroke length (mm)				
φ 20	5, 10, 15, 20, 25, 30, 40, 50	200					
φ 25	10, 15, 20, 25,						
φ 32	30, 40, 50, 60, 70,						
φ 40	80, 90,100		5 mm (φ 20 to φ50)				
φ 50	60, 90, 100	300	10 mm (φ 63 to φ100)				
φ 63	40 00 00 40 50						
<i>φ</i> 80	10, 20, 30, 40, 50,		1 1				
<i>φ</i> 100	60, 70, 80, 90,100						

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

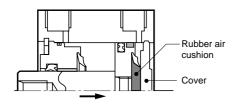
Note 2: Refer to the following table when a switch is used.

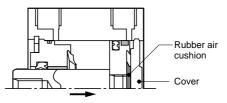
#### Switch quantity and min. stroke length (mm)

Switch quantity	1	2	3	4	5
Switch model no.  Bore size (mm)	T*	T*	Т*	T*	Т*
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	10	10	35	50	65
φ 80	10	10	35	50	65
<i>φ</i> 100	10	10	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.

#### Rubber-air cushion mechanism





### Rubber-air cushioned cylinder

- - Rubber cushioned cylinder

#### 

#### **Explanation at PULL**

When the piston moves and the rubber-air cushion and cover contact, a sealed air space is formed in the shaded section in which air is compressed as the piston moves and energy is absorbed by the rubber air cushion's compression strain, calculated at the stroke end.

## SSD-K-\*C Series

#### Specifications

SCP\*2

CMK2 CMA2 SCM SCG SCA2 SCS CKV2 CA/OV2 SSD CAT MDC2 MVC SMD2 MSD\* FC\* STK

#### Switch specifications

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

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

	Proximit	ty 2-wire	Proximity 3-	wire			Re	ed 2-w	ire			Proximity 2-wire
Descriptions	T1H, T1V	T2H, T2V, T2JH, T2JV T2YH, T2YV	T3H, T3V T3PH, T3PV (Custom order)	it3yh t3yv	T0H,	TOV	T5H,	T5V	Т	8H, /T8	SV.	T2YD
Applications	Programmable controller	Programmable	Programma	able	Prograr	nmable	Programmab	le controller,	Program	mable c	ontroller,	Programmable
Applications	relay, small solenoid valve	controller dedicated	controller, r	elay	controlle	relay, IC circuit (wo indicator light), ontroller, relay serial connection relay			controller dedicated			
Output method	-	-	NPN output PNP output NPN output			-						
Power voltage	-	-	10 to 28 V		-							
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 100 mA	5 to 20 mA (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 Green LED	Red/green LED	LE	D	Without indicator light LED (ON lighting)			Red/green LED		
Light	(ON lighting)	(ON lighting) (ON lighting)	(ON lighting) (ON lighting)	(ON lighting)	(ON lig	ghting)			(ON lighting)		(ON lighting)	
Lookago current	1 mA or less with 100 VAC	1 mA or less	10 μ A or I	000				0 mA				1 mA or less
Leakage current	2 mA or less with 200 VAC	I IIIA OFIESS		699				UIIIA				I IIIA UI IESS

With preventive maintenance output

Dana		Proximity 3-wire	Proximity 4-wire	Proximity 3-wire	Proximity 4-wire			
Desc	riptions	T2YFH/V	T3YFH/V	T2YMH/V	T3YMH/V			
Applications		Programmable	Programmable	Programmable	Programmable			
Appli	cations	controller dedicated	controller, relay	controller dedicated	controller, relay			
Outp	ut method		NPN (	PN output				
Light	Installation position adjustment		Red/green LED (ON lighting)					
:=;	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			
Reg out	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			
tive	Load voltage		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 $\mu$ 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)

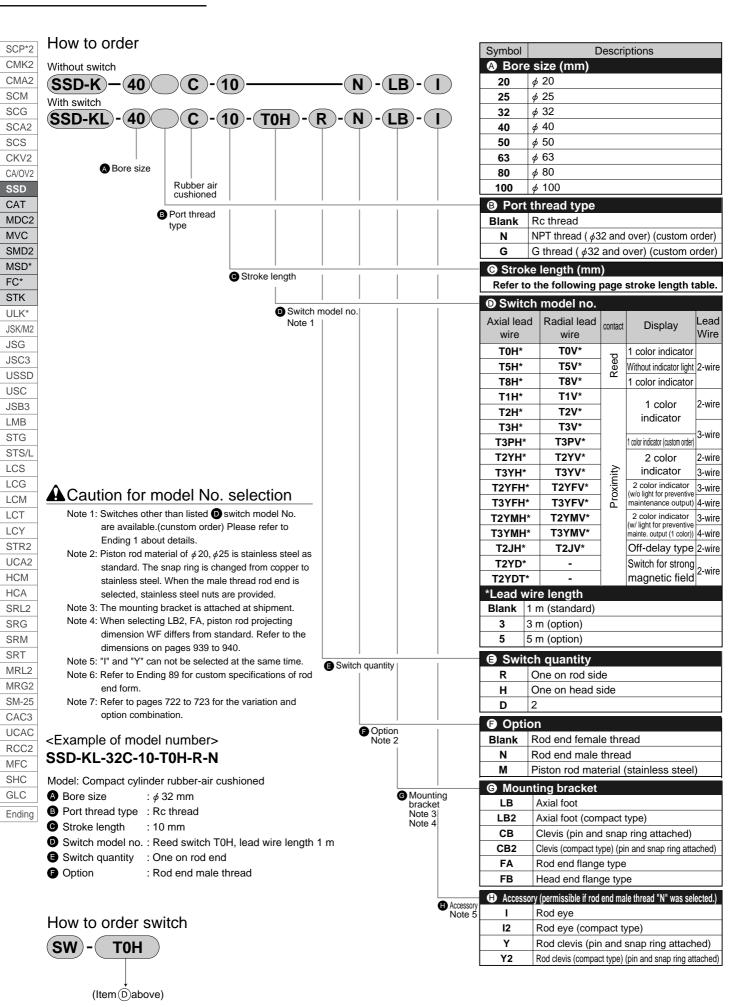
JSK/M2 JSG JSC3 USSD USC JSB3 LMB STG STS/L LCS LCG LCM LCT LCY STR2 UCA2 HCM HCA SRL2 SRG SRM SRT MRL2 MRG2 SM-25 CAC3 UCAC RCC2 MFC

ULK\*

Compact cylinder Space saving structure

SHC GLC Ending

### SSD-K-\*C Series



## SSD-K-\*C series

#### How to order

SCP\*2

#### (Stroke length table)

Ctrok	Stroke length (mm)			Appli	cable	bore	size		
Stroke length (mm)		φ20	φ25	φ 32	φ40	φ50	φ 63	φ80	φ100
	5	•							
	10	•	•	•	•	•	•	•	•
	15	•	•	•	•	•			
Standard stroke length	20	•	•	•	•	•	•	•	
	25	•	•	•	•	•			
ke	30	•	•	•	•	•	•	•	
strc	40	•	•	•	•	•	•	•	
ard	50	•	•	•	•	•	•	•	•
and	60			•	•	•	•	•	•
Š	70			•	•	•	•	•	
	80			•	•	•	•	•	
	90			•	•	•	•	•	•
	100				•		•	•	
Min. stroke length (mm) Note 1				5				10	
Max. st	troke length (mm)	200				300			
Custom	stroke length Note 2			Per	1 mm	increr	ment		

Note 1: 2 color indicator, off-delay, strong magnetic field proof, or 10 mm or shorter types with T1\* or T8\* switch is not available.

Refer to page 780 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	φ20	φ 25	φ 32	φ 40	φ 50	φ 63	φ 80	<i>φ</i> 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: 2 pcs./set is applied for a foot type mounting bracket.

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

> Compact cylinder Space saving structure

SHC GLC Ending