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

LCG
LCM
LCT
LCY
STR2
UCA2
HCM
HCA

SRL2

LMB STG STS/L

LCS

SRG SRM SRT MRL2 MRG2 SM-25 CAC3 UCAC

GLC

MFC SHC Round shaped medium bore size cylinder Double acting stroke adjustable type (retract)

SCM-R Series

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

JIS symbol







Specifications

X

Specifications										
Descriptions	SCM-R									
Bore size mm	φ20	φ20 φ25 φ32 φ40 φ5								
Actuation		Double acti	ng stroke ad	justable type	e (retracted)					
Working fluid			Compre	ssed 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 60 (r	no freezing)						
Port size		Rc	1/8		Ro	1/4				
Stroke tolerance mm	+	1.4 (up to 1	000)	+1.4 (up to 1500)	+2.3 (up to 1000)	, +2.7 (up to 1500)				
Working piston speed mm/s	30 to	30 to 1000 (Use within the allowable energy absorption.)								
Cushion	Rubber cushion									
Lubrication	Not required (when lubricating, use turbine oil ISO VG32.)									
Adjustable stroke range mm			25,	50						
Allowable energy absorption J	0.1	0.1 0.2 0.5 0.9 1.6 1.6								

Stroke length

Bore size (mm)	Standard stroke length (mm)	Max. stroke length (mm)	Min. stroke length (mm)
φ 20			
φ 25	25, 50, 75,	1000	
φ 32	100, 125, 150,		10
φ 40	200, 250, 300		10
<i>φ</i> 50	200, 200, 000	1500	
<i>φ</i> 63			

Note 1: Custom stroke length is available per 1 mm increment.

Note 2: Strokes exceeding 600 mm are available as custom order parts. Contact CKD for details.

Switch quantity and min. stroke length (mm)

Switch installation method: Rail method

Switch quantity	1		2		3		4		5	5				
Bore size (mm)	Proximity	Reed												
__ 20	1	0	2	5	40	50	55		75	85				
φ25	1	0	2	25		25		50	55		55		75	85
φ32	1	0	2	5	40	50	55		75	85				
φ40	1	0	2	5	40	50	55		75	85				
φ50	1	0	25		40	50	55		75	85				
φ63	1	0	2	25		50	55		75	85				

Switch installation method: Band method

Switch quantity	1		2			3			4			5			
Dava siza (2001)	Proxi	mity	Reed	Prox	imity	Reed									
Bore size (mm)	T2, T3	T*Y*	Reeu	T2, T3	T*Y*	Reeu	T2, T3	T*Y*	Reeu	T2, T3	T*Y*	Reeu	T2, T3	T*Y*	Reeu
φ20		10		25	35	25	50	55	50	75	80	70	95	100	95
φ25		10		25	35	25	50	55	50	75	80	70	95	100	95
φ32		10		25	35	25	50	55	50	75	80	70	95	100	95
φ40		10		25	35	25	50	55	50	75	80	70	95	100	95
φ50		10		25	35	25	50	55	50	75	80	70	95	100	95
φ63		10		25	35	25	50	55	50	75	80	70	95	100	95

Note 1: Trunion mounting is not available when installing one switch with a stroke of 10 mm or more, less than 25 mm, since the switch rail mounting position will change. Refer to page 333 for installation position.

SCM-R Series

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
RCC2
MFC
SHC
GLC
Ending

Switch specifications

●1 color/2 color indicator

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

											U		
	Proximi	ty 2-wire		Proximity 3-wire			Reed 2-wire						
Descriptions	T1H/T1V	T1H/T1V		T5H/T5V		T8H/T8V							
Annlinations	Programmable controller,	rogrammable controller, Programmable		Programmable		Prograi	Programmable Programmable controller, relay IC circuit (w/o light),		Programmable controller,				
Applications	relay, small solenoid valve	controller	dedicated	con	troller, re	elay	controll	er, relay	serial co	onnection		relay	
Output method		-				NPN output PNP output NPN output -							
Power voltage		-		10	10 to 28 VDC			-					
Load voltage	85 to 265 VAC	10 to 3	0 VDC	30 VDC or less		12/24 VDC	110 VAC	5/12/24 VDC	110 VAC	12/24 VDC	110 VAC	220 VAC	
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
Liabt	LED	LED	Red/Green LED	LED	Green LED	Red/green	LE	ΕD	withou	ut light		LED	_
Light	(ON lighting)	(ON lighting)	(ON lighting)	(ON lighting)	(ON lighting)	LED (ON lighting)	(ON li	ghting)	WILLIO	ut ligiti	(0	ON lightir	ng)
Lookaga aurrant	1 mA or less with 100 VAC	1 1	or loop	10	^ 0 = 10								
Leakage current	2 mA or less with 200 VAC	I mA	1 mA or less		10 μA or less			0 mA					

With preventive maintenance output

Dogg	riptions	Proximity 3-wire	Proximity 4-wire	Proximity 3-wire	Proximity 4-wire					
Desci	ipuons	T2YFH/V	T3YFH/V	T2YMH/V	T3YMH/V					
Appli	cations	Programmable	Programmable	Programmable	Programmable					
Applic	alions	controller dedicated	controller, relay	controller dedicated	controller, relay					
Outpu	ut method		NPN (output						
Light	Installation position adjustment section		Red/Green LED (ON lighting)							
	Preventive maintenance output	-		Yellow LED (ON lighting)						
_	Power voltage	ı	10 to 28 VDC	-	10 to 28 VDC					
jula 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 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 μA or less					
tive ance	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	Leakage current	10 μA or less								

Note 1: Refer to Ending 1 for other switch specifications.

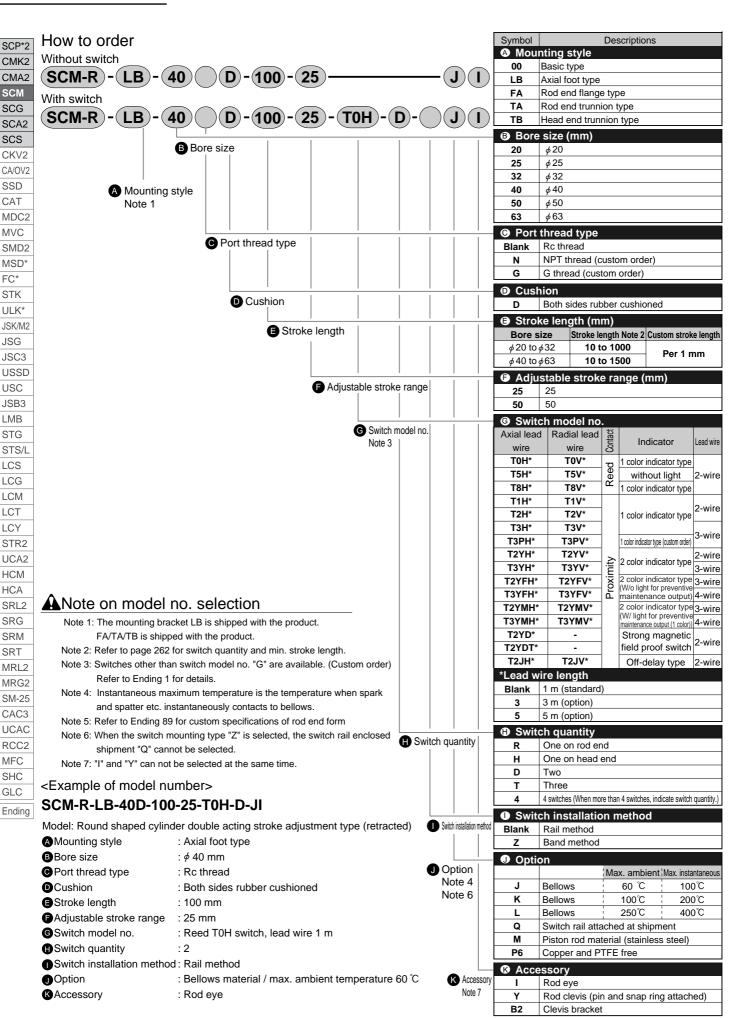
Note 2: Max. load current above: 20 mA at 25 °C. The current will be lower than 20 mA if ambient temperature around switch is higher than 25 °C. (5 to 10mA at 60 °C)

Cylinder weight

Cylinder we	eignt								(Unit: kg)
Descriptions/mounting style	Stroke length	Product	weight when st	roke length (S) = 0 mm	Switch weight	Additional weight	Additional weight	Band weight
Bore size (mm)	Adjusting range	Basic type	Axial foot type	Flange type	Trunnion type	Grommet	per S = 10 mm	perS=10 mm(with)	per 1 switch
/ 20	25	0.14	0.25	0.17	0.15	0.018	0.010	0.012	0.007
φ20	50	0.15	0.25	0.18	0.16	0.016	0.010	0.012	0.007
φ25	25	0.25	0.36	0.29	0.27	0.018	0.014	0.016	0.007
φ23	50	0.26	0.37	0.30	0.28	0.018	0.014	0.010	0.007
φ32	25	0.37	0.52	0.43	0.40	0.018	0.018	0.020	0.007
φ 32	50	0.38	0.52	0.44	0.41	0.018	0.016	0.020	0.007
φ40	25	0.70	0.89	0.78	0.75	0.018	0.030	0.032	0.007
φ 40	50	0.72	0.91	0.80	0.77	0.018	0.030	0.032	0.007
φ50	25	1.30	1.71	1.64	1.44	0.018	0.044	0.046	0.008
φ 30	50	1.33	1.75	1.67	1.47	0.018	0.044	0.040	0.008
φ63	25	1.83	2.45	2.33	1.97	0.018	0.052	0.054	0.009
φ 03	50	1.86	2.48	2.36	2.00	0.016	0.032	0.034	0.009

Round shaped cylinder Standard type

SCM-R Series



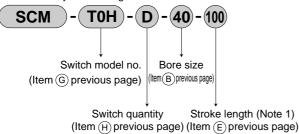
SCM-R Series

How to order

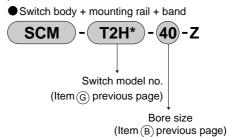
How to order switch

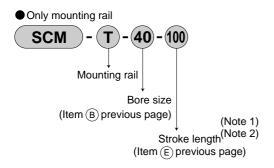
(switch installation method: rail method)

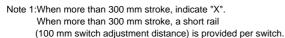
● Switch body + mounting rail set



(switch installation method: band method)







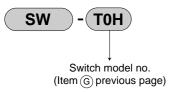
Note 2:When X is indicated only with the mounting rail, order the same number of rails as the number of switches being used.

SCM - Z - 40

Mounting rail + band

Bore size (Item (B) previous page)

(only switch body)



How to order mounting bracket

	u					
Bore size (mm) Mounting bracket	φ20	φ25	φ32	φ 40	φ 50	φ 63
Foot (LB)	SCM-LB-20	SCM-LB-25	SCM-LB-32	SCM-LB-40	SCM-LB-50	SCM-LB-63
Flange (FA/FB)	SCM-FA-20	SCM-FA-25	SCM-FA-32	SCM-FA-40	SCM-FA-50	SCM-FA-63
Trunnion (TA/TB)	SCM-TA-20	SCM-TA-25	SCM-TA-32	SCM-TA-40	SCM-TA-50	SCM-TA-63

Note 1: Mounting bolts are attached to each mounting bracket. Note 2: 2 piece/set is applied for a foot type mounting bracket. 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 MRI 2 MRG2 SM-25 CAC3 UCAC RCC2

> Round shaped cylinder Standard type

MFC

SHC GLC