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



Round shaped medium bore size cylinder Double acting non-rotating type

SCM-M Series

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

JIS symbol





Specifications

Specifications												
Descriptions	SCM-M											
Bore size mm	φ20	φ25	φ32	φ40	φ50	φ63						
Actuation		Dou	uble acting n	on-rotating t	type							
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	o freezing)								
Port size		Ro	1/8		Ro	1/4						
Stroke tolerance mm		+1	1.4		+2	2.3						
Stroke tolerance min		(0		(0						
Working piston speed mm/s	30 to	1000 (Use	within the al	lowable ene	rgy absorpti	ion.)						
Cushion	Rubber cushion											
Lubrication	Not required (when lubricating, use turbine oil ISO VG32.)											
Revolvable angle tolerance Degree	ance Degree ±1											
Allowable energy absorption J	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)
φ20			
φ 25	25, 50, 75,		
φ32	100, 125, 150,	600	10
φ 40	200, 250, 300	000	10
φ 50	200, 200, 000		
φ 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	;
Bore size (mm)	Proximity	Reed								
φ 20	1	0	2	25		50	55		75	85
φ 25	1	0	2	25		50	55		75	85
φ 32	1	0	2	25		50	55		75	85
φ 40	1	0	2	25		50	55		75	85
φ 50	1	0	25		40	50	5	5	75	85
φ 63	1	0	2	25		50	5	5	75	85

Switch installation method: Band method

_	Switch installation method														
	Switch quantity	ntity 1		2		3			4			5			
	Poro oizo (mm)	Proximity	Reed	Prox	ximity		Proximity		Reed	Proximity		Dood	Prox	imity	Reed
	Bore size (mm)	T2, T3 T*Y*	Reed	T2, T3	T*Y*	Reed	T2, T3	T*Y*	Reed	T2, T3	T*Y*	Reed	T2, T3	T*Y*	Reed
	<i>φ</i> 20	10		25	35	25	50	55	50	75	80	70	95	100	95
	φ 25	10		25	35	25	50	55	50	75	80	70	95	100	95
	φ 32	10		25	35	25	50	55	50	75	80	70	95	100	95
	φ 40	10		25	35	25	50	55	50	75	80	70	95	100	95
	<i>φ</i> 50	10		25	35	25	50	55	50	75	80	70	95	100	95
	φ 63	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-M 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

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

	Proximit	ty 2-wire		Proximity 3-wire			Reed 2-wire						
Descriptions	T1H/T1 V	T2H/T2V/ T2JH/T2JV	IT2YH/T2YV	IT3H/T3V	T3PH/T3PV (Custom order)	IT3YH/T3YV	ТОН	/TOV	T5H,	/T5V		T8H/T8\	/
Applications	Programmable controller,	Prograi	mmable	Programmable		Prograr	Programmable Programmable		ole controller, uit (w/o light),	Program	mable c	ontroller,	
Applications	relay, small solenoid valve	controller	dedicated	cor	troller, re	elay	controlle	er, relay	serial co	nnection		relay	
Output method	- NPN output PNP output NPN output -												
Power voltage	-			10 to 28 VDC						-			
Load voltage	85 to 265 VAC	10 to 3	30 VDC	30	VDC or I	ess	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
Light	LED	LED	Red/Green LED	LED	Green LED	Red/green LED	LE	D	withou	ıt light		LED	
Light	(ON lighting)	(ON lighting)	(ON lighting)	(ON lighting)	(ON lighting)	(ON lighting)	(ON li	ghting)	Williot	at light	(C	N lightir	ng)
Lookogo ourront	1 mA or less with 100 VAC	1 m A	or long	10	A or le	200				0 m 1			
Leakage current	2 mA or less with 200 VAC	IMA	1 mA or less		10 μA or less		0 mA						

With preventive maintenance output

Descriptions		Proximity 3-wire	Proximity 4-wire	Proximity 3-wire	Proximity 4-wire					
Desci	iptions	T2YFH/V	T3YFH/V	T2YMH/V	T3YMH/V					
Applie	octions	Programmable	Programmable	Programmable	Programmable					
Applic	ations	controller dedicated	controller, relay	controller dedicated	controller, relay					
Outpu	ıt method		NPN (output						
Light	Installation position adjustment		Red/Green LED (ON lighting)							
Ë	Preventive maintenance output	-		Yellow LED	(ON lighting)					
_	Power voltage	-	10 to 28 VDC	=	10 to 28 VDC					
Regular	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 μA or less					
ance ut	Load voltage		30 VDC	or less						
Load voltage Load current Leakage current		20 mA or less	20 mA or less 50 mA or less 5 to 20 mA or less		50 mA or less					
a ai	Leakage current		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

(Unit: kg)

Descriptions/mounting style	Р	roduct weight v	when stroke le	ngth (S) = 0 m	Switch weight	Additional weight	Additional weight	Band weight per	
Port size	Basic type	Axial foot type	Flange type	Clevis type	Trunnion type	Grommet	per S = 10 mm	per S = 10 mm (with rail)	1 switch
φ 20	0.10	0.21	0.13	0.15	0.11	0.018	0.010	0.012	0.007
φ 25	0.18	0.31	0.22	0.26	0.20	0.018	0.014	0.016	0.007
φ 32	0.27	0.43	0.33	0.42	0.30	0.018	0.018	0.020	0.007
φ 40	0.44	0.66	0.52	0.67	0.49	0.018	0.030	0.032	0.007
φ 50	0.85	1.33	1.19	1.25	0.99	0.018	0.044	0.046	0.008
φ 63	1.15	1.87	1.65	1.83	1.29	0.018	0.052	0.054	0.009

(Eg.) Product weight of SCM-M-LB-40D-100-T2H-D

Product weight when $S = 0 \text{ mm} \cdots 0.66 \text{ kg}$

Additional weight when S = 100 mm \cdots 0.032 x $\frac{100}{10}$ = 0.32 kg

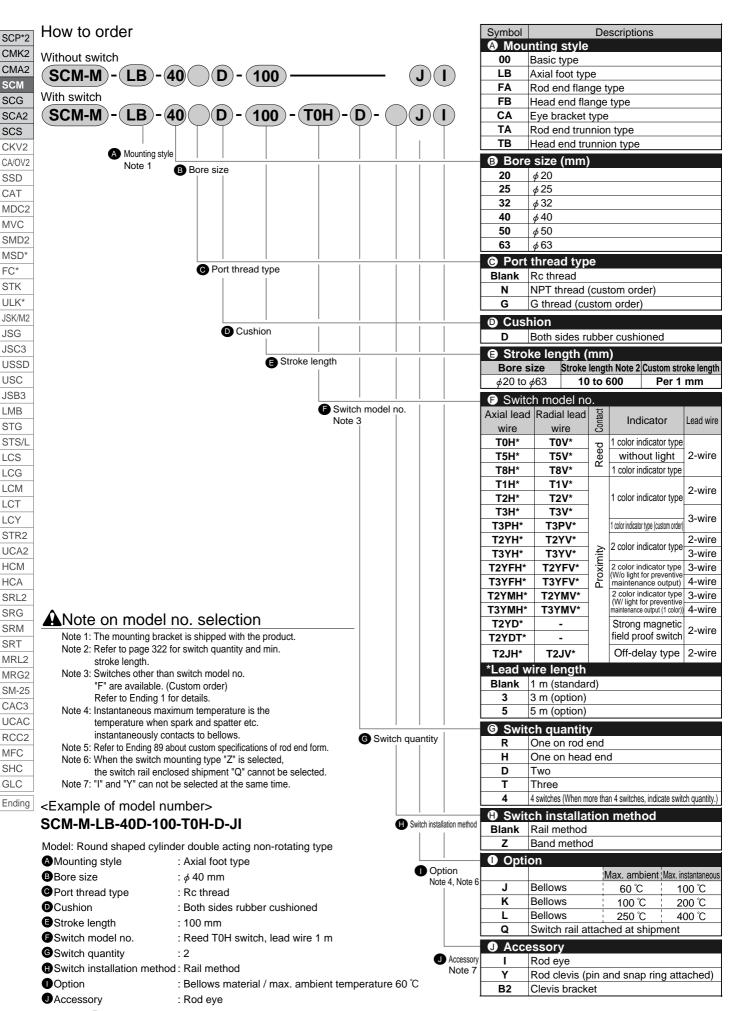
Weight of 2 switches ······ 0.036 kg

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

Round shaped cylinder Standard type

SCM-M Series

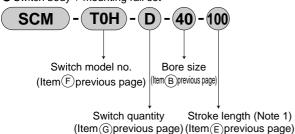


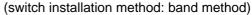
How to order

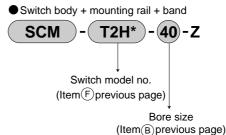
How to order switch

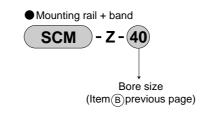
(switch installation method: rail method)

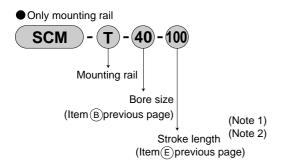
Switch body + mounting rail set











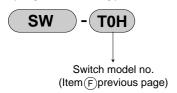
Note 1:When more than 300 mm stroke, indicate "X".

When more than 300 mm stroke, a short rail

(100 mm switch adjustment distance) is provided per switch.

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

(only switch body)



How to order mounting bracket

Bore size (mm) Mounting bracket	φ20	φ25	φ32	φ40	φ50	φ63
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
Eye (CA)	SCM-CA-20	SCM-CA-25	SCM-CA-32	SCM-CA-40	SCM-CA-50	SCM-CA-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 bolt is 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