

## How to order

No switch (built-in magnet for switch)

SCM-X - LB - 40 - D - 100 - J - I

With switch (built-in magnet for switch)

SCM-X - LB - 40 - D - 100 - T0H - D - J - I

A Mounting  
\*1

B Bore size

C Port thread

D Cushion

E Stroke

F Switch model No.  
\*3  
\*4

G Switch quantity  
\*5

H Switch mounting

I Option  
\*5, \*7

J Accessory  
\*8

## ⚠ Precautions for model No. selection

\*1 : Mounting bracket will be shipped with the product.

\*2 : Refer to page 254 for the number of installed switches and the min. stroke.

\*3 : Switches other than F Switch model No. are also available. (Made to order)  
Refer to Ending Page 1 for details.

\*4 : T8H/V switches cannot be mounted when the switch mounting style is the rail.

\*5 : The instantaneous max. temperature is the temperature when sparks, cutting chips, etc., instantaneously contact the bellows.

\*6 : Refer to Ending Page 85 for custom specifications of rod end form.

\*7 : "Q" (switch rail enclosed at shipment) is not available for the "Z" switch mounting.

\*8 : "I" and "Y" cannot be selected together.

\*9 : Switches are shipped with the product. Contact CKD if assembling before shipment is necessary.

## [Example of model No.]

### SCM-X-LB-40D-100-T0H-D-JI

Model: Round shaped cylinder, single acting/push

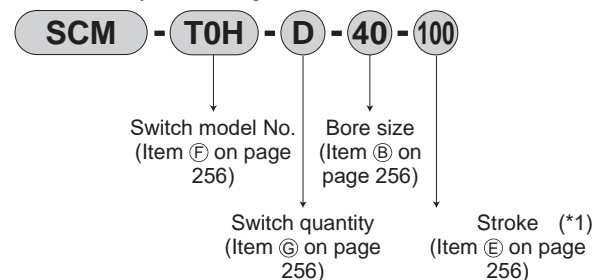
- A Mounting : Axial foot
- B Bore size : ø40 mm
- C Port thread : Rc thread
- D Cushion : With two-sided rubber cushion
- E Stroke : 100 mm
- F Switch model No. : Proximity T0H switch, lead wire 1 m
- G Switch quantity : 2
- H Switch mounting : Rail
- I Option : Bellows material/max. ambient temperature 100°C
- J Accessory : Rod eye

Code	Description					
A Mounting						
00	Basic					
LB	Axial foot					
FA	Rod side flange					
FB	Head side flange					
CA	Eye bracket					
TA	Rod side trunnion					
TB	Head side trunnion					
B Bore size (mm)						
20	ø20					
25	ø25					
32	ø32					
40	ø40					
C Port thread						
Blank	Rc thread					
N	NPT thread (made-to-order product)					
G	G thread (made-to-order product)					
D Cushion						
D	With two-sided rubber cushion					
E Stroke (mm)						
Bore size		Stroke *2		Custom stroke		
ø20 to ø40		5 to 200		In 1 mm increments		
F Switch model No.						
Axial lead wire	Radial lead wire	Contact	Voltage		Indicator	Lead wire
			AC	DC		
T0H*	T0V*	Reed	●	●	1-color LED	2-wire
T5H*	T5V*		●	●	No indicator lamp	
T8H*	T8V*		●	●	1-color LED	
T1H*	T1V*	Proximity	●		1-color LED	2-wire
T2H*	T2V*			●		
T3H*	T3V*			●		
T3PH*	T3PV*			●	1-color LED	3-wire
T2WH*	T2WV*			●	2-color LED	
T2YH*	T2YV*			●		
T3WH*	T3WY*			●		
T3YH*	T3YV*			●		
T2YD*	-			●	2-color LED AC magnetic field	2-wire
T2YDT*	-			●		
T2JH*	T2JV*			●	1-color LED off-delay	2-wire
* Lead wire length						
Blank	1 m (standard)					
3	3 m (option)					
5	5 m (option)					
G Switch quantity						
R	1 on rod side					
H	1 on head side					
D	2					
T	3					
4	4 (when there are more than 4 switches, indicate switch quantity.)					
H Switch mounting						
Blank	Rail method					
Z	Band method					
I Option						
			Max. ambient temp.	Instantaneous max. temp.		
J	Bellows material		100°C	200°C		
L	Bellows material		250°C	400°C		
Q	Switch rail included at shipment					
M	Piston rod material (stainless steel)					
P6	Copper and PTFE free					
J Accessory						
I	Rod eye					
Y	Rod clevis (pin and snap ring included)					
B2	Clevis bracket					

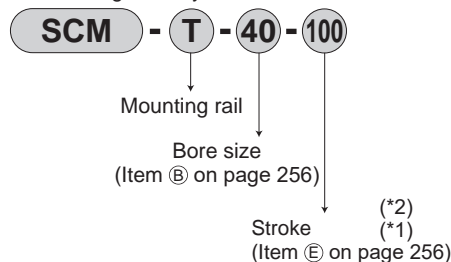
### How to order switch

#### [Switch mounting: Rail]

##### ● Switch body + mounting rail set



##### ● Mounting rail only



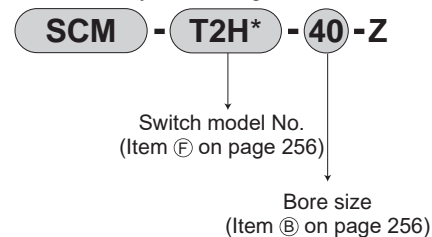
\*1: Indicate X if the stroke exceeds 300 mm.

If exceeding 300 mm, a short rail (with 100 mm switch adjustment length) will be included per switch.

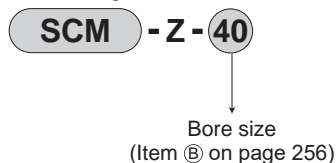
\*2: If indicating X when ordering mounting rails only, order the same number of rails as that of applicable switches.

#### [Switch mounting: Band]

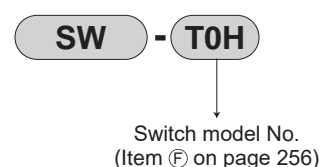
##### ● Switch body + mounting bracket set + band



##### ● Mounting bracket set + band



#### [Switch body only]



### How to order mounting bracket

Bore size (mm)	ø20	ø25	ø32	ø40
Mounting bracket				
Foot (LB)	SCM-LB-20	SCM-LB-25	SCM-LB-32	SCM-LB-40
Flange (FA/FB)	SCM-FA-20	SCM-FA-25	SCM-FA-32	SCM-FA-40
Eye bracket (CA)	SCM-CA-20	SCM-CA-25	SCM-CA-32	SCM-CA-40
Trunnion (TA/TB)	SCM-TA-20	SCM-TA-25	SCM-TA-32	SCM-TA-40

\*1: All mounting brackets are supplied with mounting bolts.

\*2: The foot mounting bracket is provided as 2 pcs./set.

### Theoretical thrust table

(Unit: N)

Bore size (mm)	Working pressure MPa								
	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
ø20	25	56	88	1.19x10 <sup>2</sup>	1.50x10 <sup>2</sup>	1.82x10 <sup>2</sup>	2.13x10 <sup>2</sup>	2.45x10 <sup>2</sup>	2.76x10 <sup>2</sup>
ø25	58	1.07x10 <sup>2</sup>	1.56x10 <sup>2</sup>	2.05x10 <sup>2</sup>	2.54x10 <sup>2</sup>	3.03x10 <sup>2</sup>	3.52x10 <sup>2</sup>	4.02x10 <sup>2</sup>	4.51x10 <sup>2</sup>
ø32	1.06x10 <sup>2</sup>	1.86x10 <sup>2</sup>	2.67x10 <sup>2</sup>	3.47x10 <sup>2</sup>	4.28x10 <sup>2</sup>	5.08x10 <sup>2</sup>	5.88x10 <sup>2</sup>	6.69x10 <sup>2</sup>	7.49x10 <sup>2</sup>
ø40	1.51x10 <sup>2</sup>	2.77x10 <sup>2</sup>	4.03x10 <sup>2</sup>	5.28x10 <sup>2</sup>	6.54x10 <sup>2</sup>	7.80x10 <sup>2</sup>	9.05x10 <sup>2</sup>	1.03x10 <sup>3</sup>	1.16x10 <sup>3</sup>

Note: The load above indicates thrust excluding the spring force at the push end.

SCP\*3

CMK2

CMA2

SCM

SCG

SCA2

SCS2

CKV2

CAV2/  
COVP/N2

SSD2

SSG

SSD

CAT

MDC2

MVC

SMG

MSD/  
MSDG

FC\*

STK

SRL3

SRG3

SRM3

SRT3

MRL2

MRG2

SM-25

ShkAbs

FJ

FK

Spd  
Contr

Ending