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



Pencil shaped cylinder Single acting, extend/retract types

SCPS/SCPS2/SCPH2 Series

lacktriangle Bore size: ϕ 2.5, ϕ 4, ϕ 6, ϕ 10, ϕ 16

● Single acting, ext







Specifications

Descriptions		SC	PS		SCPS2 SCPS2-L		SCPH2 SCPH2-L			
Bore size	mm	φ2.5	φ4	<i>∲</i> 6	<i>φ</i> 10	<i>∲</i> 16	<i>φ</i> 6	<i>φ</i> 10	<i>ϕ</i> 16	
Actuation			Single	acting, extend	type		Singl	e acting, retract	type	
Working fluid					Compre	ssed air				
Max. working pressure	MPa		1.0							
Min. working pressure	MPa	0.3	35	0.3	0.3 0.15		0.39	0.2		
Withstanding pressure I	MPa	1.6								
Ambient temperature	℃	-10 to 60 (no freezing)								
Port size		Joint for tube (tube <i>∮</i> 2.5 x <i>∮</i> 4)	M5						
+0.5).5	+1.0						
Stroke tolerance	mm	()	0						
Working piston speed mi	m/s	50 to	300	50 to 500						
Cushion		No	ne	Rubber cushion						
Lubrication			No	t required (whe	n lubricating, us	se turbine oil C	lass 1 ISO VG3	32.)		
Allowable energy absorption	J	1.5 x 10 ⁻⁴	4 x 10 ⁻⁴	0.011	0.041	0.162	0.011	0.041	0.162	

Note 1: Do not leave the single acting cylinder in the pressurized state. If left in the pressurized state, the piston rod may not return with spring force when pressure is released.

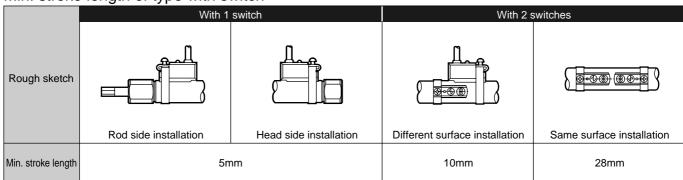
Stroke length

Bore size (mm)		Standard stroke length (mm)	Max. stroke length (mm)	Min. stroke length (mm)		
SCPS	$\phi 2.5$ 5, 10		10			
	φ4	15, 10, 15, 20	20			
SCPS2 SCPH2	φ6		100	5		
	φ10	15, 30, 45, 60	120			
	φ16		120			

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

Note 2: If the maximum stroke is exceeded, product specifications may not be satisfied depending on conditions. Refer to Ending 74.

Min. stroke length of type with switch



SCPS/SCPS2/SCPH2 Series

Specifications

SCP*2

Switch specifications

	Proximit	ty 2-wire		Proximity 3-wire			
Descriptions	M2V	M2WV (2 color indicator type)	M3V	M3PV (Custom order)	M3WV (2 color indicator type)		
Applications	Programmal	ole controller		r, relay, I valve			
Output method			NPN output	PNP output	NPN output		
Power voltage			4.5 to 2	4.5 to 28 VDC 10 to 2			
Load voltage	10 to 3	30 VDC		30 VDC or less			
Load current	5 to 20 mA		200 mA or less	100 mA or less	150 mA or less		
Light	LED (ON lighting) Red/green LED (ON lighting)		LED (ON lighting)	Yellow LED (ON lighting)	Red/green LED (ON lighting)		
Leakage current	1 mA or less		10 μA or less 0.05 mA or less		10 μA or less		

December Const.	Reed 2 wire							
Descriptions	M0V	M5V						
Applications	Programmable controller, relay	Programmable controller, relay, IC circuit (w/o light), serial connection						
Load voltage / current	5 to 50 mA at 12/24 VDC 7 to 20 mA at 110 VAC	50 mA or less at 5/12/24 VDC, 20 mA or less at 110 VAC						
Light	LED (ON lighting)	Without indicator light						
Leakage current	0r	mA						

Single acting spring load (SCPS, SCPS2, SCPH2)

(Unit: N)

Bore size (mm)	Stroke length 0 mm	Full stroke length during operation
φ2.5	0.73	1.17
φ4	1.76	2.84
φ6	2.25	4.70
φ10	2.84	6.37
φ16	5.19	11.5

Cylinder weight

(Unit: g)

	,	9												\
Lype	Stroke length		Without switch				With switch (2 switches)				Switch weight			
	Bore size (mm)	5st	10st	15st	20st	30st	45st	60st	15st	30st	45st	60st	(per switch)	
	SCPS	φ2.5	1.6	1.7	-	-	-	-	-	-	-	-	-	-
	3073	φ4	7	8	9	10	-	-	-	-	-	-	-	
		φ6	-	-	12	-	16	20	24	58	62	66	70	
	SCPS2	φ10	-	-	26	-	33	40	47	72	79	86	93	
		φ16	-	-	48	-	62	76	90	96	110	124	138	24
		φ6	-	-	15	-	18	21	24	61	64	67	70	
	SCPH2	φ10	-	-	26	-	32	38	44	72	78	84	90	
		φ16	-	-	51	-	63	76	88	99	101	124	136	

Mounting bracket weight

(Unit: g)

Amaliaabla	Mounting style							
Applicable bore size	Foot type LS	Flange type FA	Clevis type CB					
φ6	6	4	-					
φ10	6	4	4					
φ16	15	12	10					

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 SHC GLC Ending

> Pencil shaped cylinder Standard type

SCPS Series

SCP*2 CMK2 CMA2

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

LCS
LCG
LCM
LCT
LCY
STR2
UCA2
HCM
HCA
SRL2

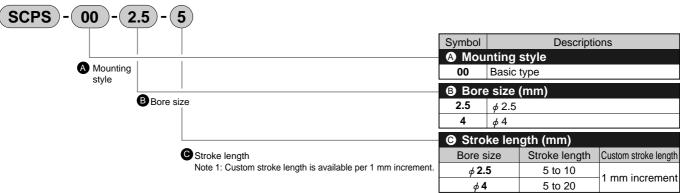
STS/L

HCA SRL2 SRG SRM SRT MRL2 MRG2

MRG2 SM-25 CAC3 UCAC RCC2 MFC

SHC GLC Ending

How to order



<Example of model number>

SCPS-00-2.5-5

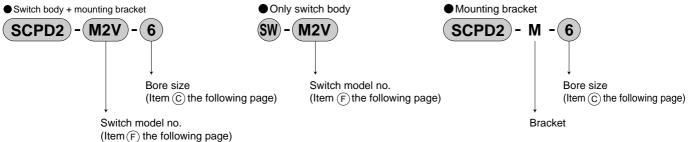
Model: Pencil shaped cylinder Single acting, extend type

A Mounting style: Basic type

B Bore size : ϕ 2.5 mm

C Stroke length : 5 mm

How to order switch

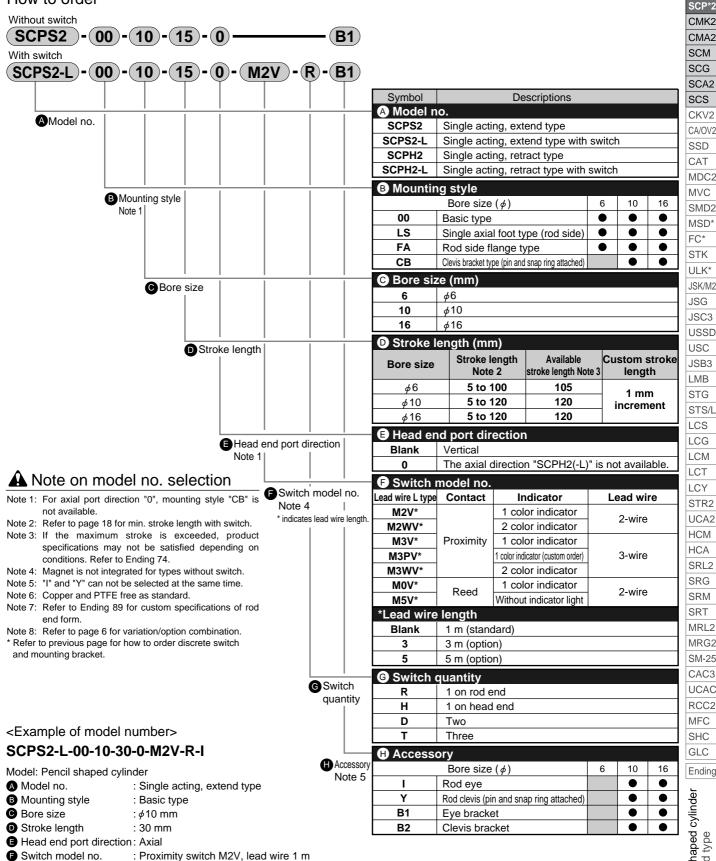


How to order mounting bracket

Bore size (mm) Mounting bracket	φ6	<i>φ</i> 10	<i>ϕ</i> 16
Foot (LS)	P2-LS-6	P2-LS-10	P2-LS-16
Flange (FA)	P2-FA-6	P2-FA-10	P2-FA-16

Note: 1 pc./set is applied for a foot (LS) type mounting bracket.

SCPS2/SCPH2 Series



Head cover side port direction

Switch quantity

Accessory

How to order

The direction of the piping port on the support type 00, LB, and FA head cover can be selected from vertical or horizontal based on the axis direction.

: 1 on rod end

: Rod eye

Port size of ϕ 6 cylinder

M3 thread is also available.



Model no.