

Compact cylinder, fine speed type

SMD2-F Series

● Bore size: ϕ 6, ϕ 10, ϕ 16, ϕ 20, ϕ 25, ϕ 32







Specifications

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

Descriptions		SMD2-F/SMD2-LF (with switch)							
Bore size	mm	φ 6	φ10	φ16	φ20	φ25	φ32		
Actuation				Double	Double acting				
Working fluid		Compressed air							
Max. working pressi	ure MPa	0.70							
Min. working pressu	ure MPa	0.15 0.10							
Withstanding pressu	ure MPa	1.05							
Ambient temperature °C 5 to 60									
Port size		M5							
Stroke tolerance mm		+1.5							
		0							
Working piston speed mm/s 1 t					200				
Cushion		Rubber cushioned							
Lubrication		Must be oil free							
Allowable energy ab	sorption J	0.005	0.036	0.1	0.1	0.19	0.5		

Stroke length

Model no.	Bore size (mm)	Standard stroke length (mm)	Max. stroke length (mm)	Min. stroke length (mm)
SMD2-F	φ 6,φ 10,φ16	5, 10, 15, 20, 25, 30	60	1
SMD2-LF	φ 20, φ 25, φ 32	5, 10, 15, 20, 25, 30, 40, 50	100	'

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

Min. stroke length with switch

Model	Bore size	1 color indicator type		2 color indicator type		With preventive maintenance output	
Wodei		K*H	K*V	K*YH	K*YV	K*Y*H	K*Y*V
	<i>φ</i> 6						
	φ10			5		1	
SMD2-LF-DA	φ16		5				
SIVIDZ-LIT-DA	φ20	`	,				
	φ25						
	φ32						
	<i>φ</i> 6	15		15	10	10	0
	<i>ϕ</i> 10	10		15	10	10	0
SMD2-LF-DB/DC	<i>ϕ</i> 16	10	5	10	10	10	0
GIVIDE EL DE/DO	φ20	10		10	5	5	5
	φ25	5		5	5	5	<u> </u>
	φ32	5		5	5	5	5

Clean room specifications

(Catalog No. CB-033SA)

Dust generation preventing structure for use in clean room

SMD2(

P7*

SMD2-F Series

Specifications

Switch specifications

• 1 color/2 color indicator

	Proximity 2-wire		Proximity 3-wire			Reed 2-wire			
Descriptions	K2H/K2V	K2YH/K2YV	K3H/K3V	K3PH/K3PV (Custom order)	K3YH/K3YV	K0H,	/K0V	K5H	/K5V
Applications	Programmable controller		Programmable controller, relay			Programmable		Programmable controller, relay	
Applications			Programmable controller, relay		controller, relay		IC circuit (without indicator light), serial connection		
Output method	nethod -		NPN output	PNP output	NPN output	-			
Power voltage	er voltage -		10 to 28 VDC				3		
Load voltage	10 to 30 VDC		30 VDC or less		12 VDC /24 VDC	110 VAC	5/12/24 VDC	110 VAC	
Load current	oad current 5 to 20mA (Note 1)		50mA or less		5 to 50mA	7 to 20mA	50mA or less	20mA or less	
Light	LED (ON lighting) Red/green LED (ON lighting)		LED (ON lighting) Yellow LED (ON lighting) Red/green LED (ON lighting)		LED (ON lighting) -				
Leakage current	1mA or less		10 μA or less		0mA				

Note 1: 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)

With preventive maintenance output

Descriptions		Proximity 3-wire	Proximity 4-wire	Proximity 3-wire	Proximity 4-wire				
Desci	ιριιοπο	K2YFH/V	K3YFH/V	K2YMH/V	K3YMH/V				
Applications		Programmable controller	Programmable	Programmable controller	Programmable				
Applic	alions	Programmable controller	controller, relay	Programmable controller	controller, relay				
Outpu	ıt method	NPN output							
Light	Installation position adjustment section	Red/green LED (ON lighting)							
Ë	Preventive maintenance output		•	Yellow LED (ON lighting)					
	Power voltage	-	10 to 28 VDC	-	10 to 28 VDC				
Output	Load voltage	10 to 30 VDC	30 VDC or less	10 to 30 VDC	30 VDC or less				
no	Load current	5 to 20mA	50mA or less	5 to 20mA	50mA or less				
	Leakage current	1mA or less	10 μA or less	1.2mA or less	10 μA or less				
tive ince	Load voltage	30 VDC or less							
Preventive maintenance output	Load current	20mA or less	50mA or less	5 to 20mA or less	50mA or less				
Pre mair o	Leakage current		10 <i>μ</i> A	or less					

Weight

It is the same as the double acting/single rod type SMD2 series. Refer to page 1007.

Dimensions

It is the same as the double acting/single rod type SMD2 series. Refer to pages 1010 to 1012.

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

HCM HCA SRL2

LCY STR2

SRG SRM SRT MRL2

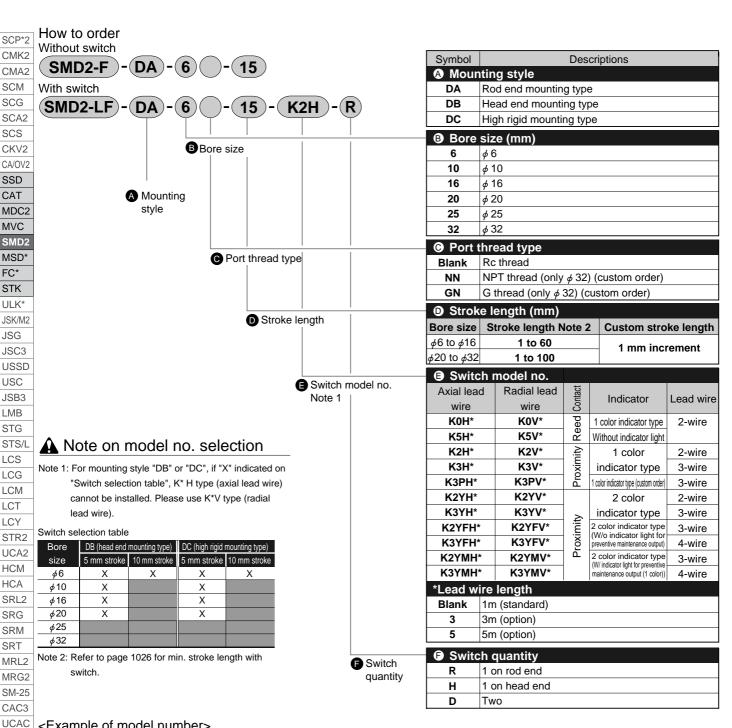
MRG2 SM-25 CAC3 UCAC

MFC SHC GLC

Ending

Compact cylinder Space saving structure

SMD2-F Series



<Example of model number>

SMD2-LF-DA-6-15-K0H-R

Model: Compact cylinder fine speed type

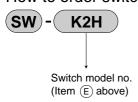
A Mounting style : Rod end mounting type

B Bore size : φ 6mm Port thread type : Rc thread Stroke length

Switch model no. : Reed switch K0H, lead wire length 1m

Switch quantity : 1 on rod end

How to order switch



RCC2

MFC

SHC

GLC

Ending