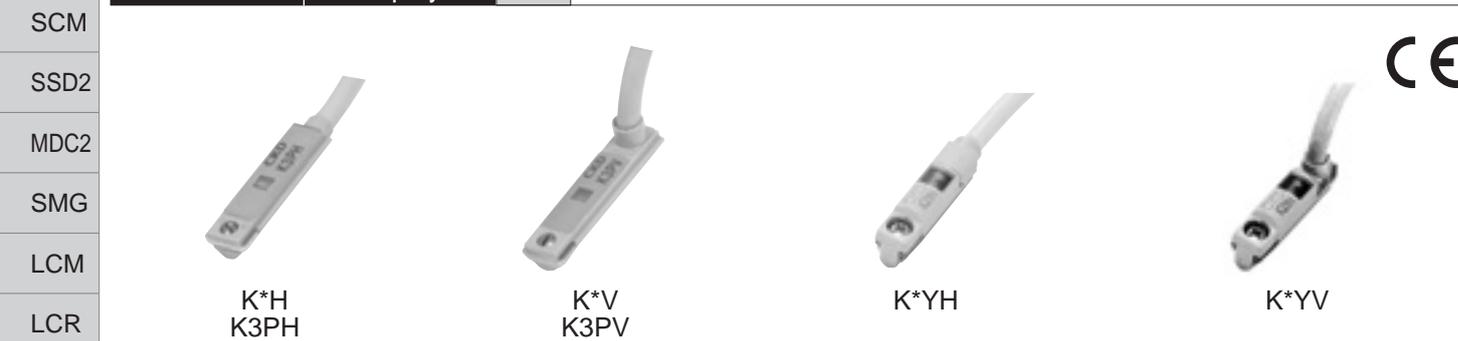


SCPD3	<b>K Series</b>	<b>1-color/2-color display</b>	Applicable cylinder	<b>SMG/STR2</b>
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## Specifications

Descriptions	Proximity 2-wire		Proximity 3-wire		
	K2H/K2V	K2YH/K2YV	K3H/V (NPN output)	K3PH/V (PNP output)	K3YH/V (2-color display)
Applications	Programmable controller		Programmable controller, relay		
Output method	-		NPN output	PNP output	NPN output
Power supply voltage	-		10 to 28 VDC		
Load voltage	10 to 30 VDC		30 VDC or less		
Load current	5 to 20 mA (*1)		50 mA or less		
Current consumption	-		10 mA or less at 24 VDC	12 mA or less at 24 VDC	10 mA or less at 24 VDC
Internal voltage drop	4 V or less		0.5 V or less		
Indicator lamp	Red LED (Lit when ON)	Red/green LED (Lit when ON)	Red LED (Lit when ON)	Yellow LED (Lit when ON)	Red/green LED (Lit when ON)
Leakage current	1 mA or less		10 µA or less		
Lead wire length	1 m (oil resistant vinyl cable 2-conductor 0.2 mm <sup>2</sup> )	1 m (oil resistant vinyl cable 2-conductor 0.3 mm <sup>2</sup> )	1 m (oil resistant vinyl cable 3-conductor 0.2 mm <sup>2</sup> )		1 m (oil resistant vinyl cable 3-conductor 0.3 mm <sup>2</sup> )
Max. shock resistance	980 m/s <sup>2</sup>				
Insulation resistance	20 MΩ and over with 500 VDC megger	100 MΩ and over with 500 VDC megger	20 MΩ and over with 500 VDC megger		100 MΩ and over with 500 VDC megger
Withstand voltage	No abnormality after application of 1000 VAC for 1 minute.				
Ambient temperature	-10 to +60°C				
Degree of protection	IEC Standards IP67, JIS C0920 (waterproof)				
Weight	1 m: 18 g 3 m: 49 g 5 m: 80 g	1 m: 31 g 3 m: 85 g 5 m: 139 g	1 m: 18 g 3 m: 49 g 5 m: 80 g		1 m: 31 g 3 m: 85 g 5 m: 142 g

Descriptions	Reed 2-wire			
	K0H/K0V		K5H/K5V	
Applications	Programmable controller, relay		Programmable controller, relay IC circuit (without indicator lamp), serial connection	
Power supply voltage	-			
Load voltage	12/24 VDC	110 VAC	5/12/24 VDC	110 VAC
Load current	5 to 50 mA	7 to 20 mA	50 mA or less	20 mA or less
Current consumption	-			
Internal voltage drop	3 V or less		0.1 V or less (*4)	
Indicator lamp	Red LED (Lit when ON)		-	
Leakage current	0 mA			
Lead wire length	1 m (oil resistant vinyl cable 2-conductor 0.2 mm <sup>2</sup> )			
Max. shock resistance	294 m/s <sup>2</sup>			
Insulation resistance	20 MΩ and over with 500 VDC megger			
Withstand voltage	No abnormality after application of 1000 VAC for 1 minute.			
Ambient temperature	-10 to +60°C			
Degree of protection	IEC Standards IP67, JIS C0920 (waterproof)			
Contact protection circuit	No			
Weight	1 m: 18 g 3 m: 49 g 5 m: 80 g			

\*1: The maximum load current above is for 25°C. The current will be lower than 20 mA when operating ambient temperature around the switch is higher than 25°C. (5 to 10 mA at 60°C)

\*2: Installation of K3PH, K3PV onto applicable cylinders is a custom order.

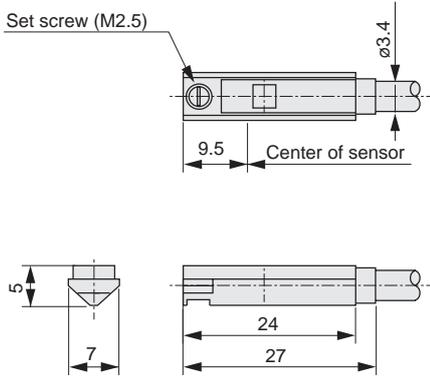
\*3: Contact CKD for cylinder switches with a connector.

\*4: Internal resistance of 0.5 Ω or less

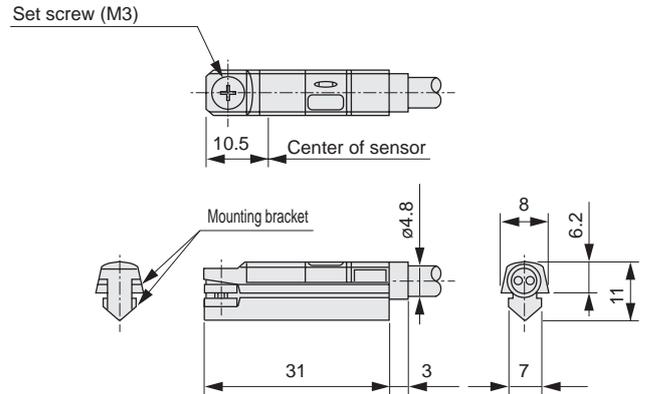
\*5: For details of the contact protections measures, refer to page 320.

## Dimensions

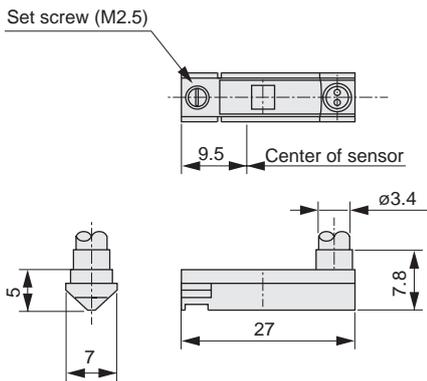
● K\*H Series (straight lead wire)



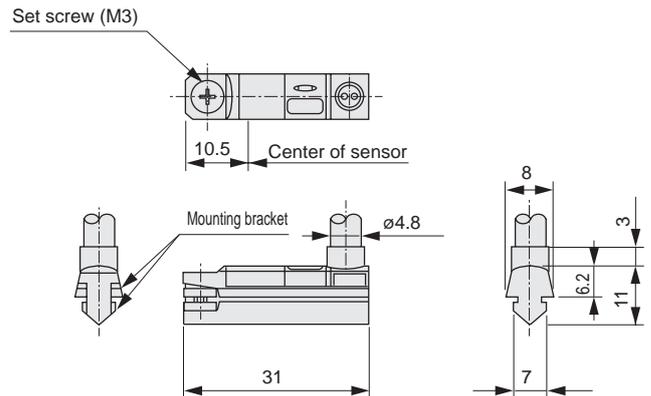
● K\*YH Series  
(2-color indicator, straight lead wire)



● K\*V Series (L-shaped lead wire)



● K\*YV Series  
(2-color display, L-shaped lead wire)



SCPD3
SCM
SSD2
MDC2
SMG
LCM
LCR
LCG
LCX
STM
STG
STR2
MRL2
GRC
Cylinder Switch
MN3E
MN4E
4GA/B
M4GA/B
MN4GA/B
F.R. (module unit)
Clean F.R
Precision R
Press gauge
Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

## Switch internal circuit diagram

● K2H/K2V/K2YH/K2YV		● K3H/K3V/K3YH/K3YV	
● K3PH/K3PV		● K0H/K0V	
● K5H/K5V			

- SCPD3
- SCM
- SSD2
- MDC2
- SMG
- LCM
- LCR
- LCG
- LCX
- STM
- STG
- STR2
- MRL2
- GRC
- Cylinder switch
- MN3E  
MN4E
- 4GA/B
- M4GA/B
- MN4GA/B
- F.R (module unit)
- Clean F.R
- Precision R
- Press gauge  
Diff. press gauge
- Electro-pneumatic R
- Speed controller
- Auxiliary valve
- Fitting/tube
- Clean air unit
- Pressure sensor
- Flow rate sensor
- Valve for air blow
- Ending