

K Series

Application cylinder

SMG STR2









Specifications

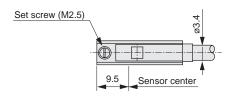
Item	2-wire proximity		3-wire proximity			
	K2H/K2V	K2YH/K2YV	K3H/V (NPN output)	K3PH/V (PNP output)	K3YH/V (2-color LED)	
Applications	Dedicated for programmable controller		For programmable controller, relay			
Output method	-		NPN output	PNP output	NPN output	
Power supply voltage	-		10 to 28 VDC			
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 with 24 VDC	10 mA or less with 24 VDC	10 mA or less with 24 VDC	
Internal voltage drop	4 V or less		0.5 V or less			
Indicator	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 cabtyre	1 m (oil resistant vinyl cabtyre	1 m (oil resistant vinyl cabtyre cable 3-conduc- 1 m (oil resistant vinyl cabtyre			
	cable 2-conductor 0.2mm ²)	cable 2-conductor 0.3mm ²)	tor 0.2mm²) cable 3-conductor 0.2mm²)			
Shock resistance	980m/s ²					
Insulation resistance	$20~\text{M}\Omega$ and over with 500 VDC megger	$100\ \text{M}\Omega$ and over with 500 VDC megger	20 MΩ and over wi	th 500 VDC megger	100 MΩ and over with 500 VDC megger	
Withstand voltage	No failure after 1 minute of 1,000 VAC application.					
Ambient temperature	-10 to +60°C					
Degree of protection	IEC standards IP67, JIS C0920 (water tight)					
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	

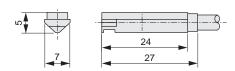
ltom	2-wire reed							
Item	K0H.	/K0V	K5H/K5V					
Applications	For programmable	le controller, relay	For programmable controller, relay, IC circuit (no indicator lamp), serial connection					
Power supply voltage	ower supply voltage -							
Load voltage	12/24 VDC	110 VAC	5/12/24 VDC	110 VAC				
Load current	5 to 50mA	7 to 20mA	50 mA or less	20 mA or less				
Current consumption	-							
Internal voltage drop	3 V or less (with 30mA load current for DC)		0.1V or less (*3)					
Indicator	Red LED(Lit when ON)		-					
Leakage current	0 mA							
Lead wire length	1 m (oil resistant vinyl cabtyre cable 2-conductor 0.2mm²)							
Shock resistance	294 m/s ²							
Insulation resistance	20 M Ω and over with 500 VDC megger							
Withstand voltage	No failure after 1 minute of 1,000 VAC application.							
Ambient temperature	-10 to +60°C							
Degree of protection	IEC standards IP67, JIS C0920 (water tight)							
Contact protection circuit*4	None							
Weight	1 m: 18 g 3 m: 49 g 5 m: 80 g							

^{*1:} The above max. load current is the value at 25°C. The current is lower than 20 mA if the operating ambient temperature around the switch is higher than 25°C. (5 to 10 mA at 60°C) *2: Installation of K3PH, K3PV onto compatible cylinders is made to order. *3: Internal resistance 0.5 Ω or less. *4: Refer to Intro Page 80 for contact protective measures.

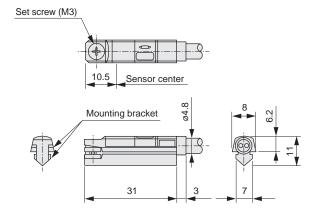
Dimensions

K*H Series (axial lead wire)

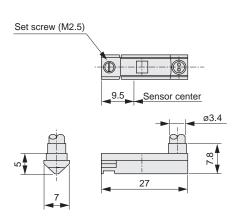




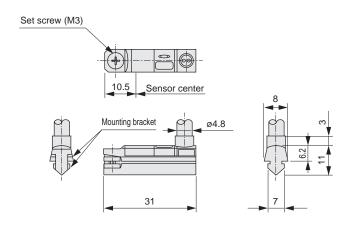
K*YH Series(2-color LED, axial lead wire)



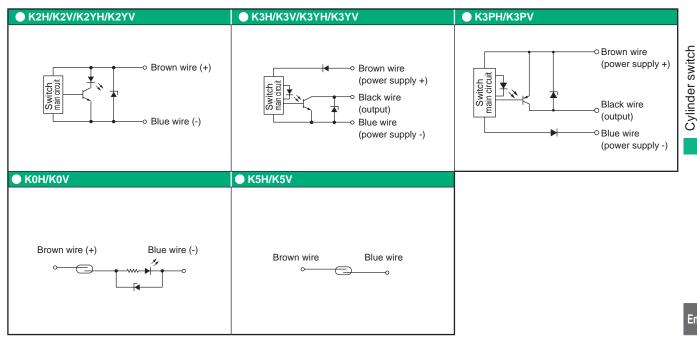
K*V Series (L-shaped lead wire)



■ K*YV Series(2-color LED, L-shaped lead wire)



Switch internal circuit diagram



Ending