

K Series

Applicable cylinder

SMG STR2











Specifications

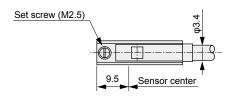
Descriptions	Proximity 2-wire		Proximity 3-wire				
	K2H/K2V	K2YH/K2YV	K3H/V (NPN output)	K3PH/V (PNP output)	K3YH/V (2-color display)		
Applications	Dedicated for programmable controller		For programmable controller, relay				
Output method	-		NPN output	PNP output	NPN output		
Power supply voltage	-		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	12 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 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 cabtyre	1 m (oil resistant vinyl cabtyre	1 m (oil resistant vinyl cabtyre cable 1 m (oil resistant viny		1 m (oil resistant vinyl cabtyre		
	cable 2-conductor 0.2 mm ²)	cable 2-conductor 0.3 mm ²)	3-conductor 0.2 mm²)		cable 3-conductor 0.2 mm ²)		
Shock resistance	980 m/s ²						
Insulation resistance	$20~\text{M}\Omega$ and over with 500 VDC megger	$100\mbox{M}\Omega$ and over with 500 VDC megger	20 MΩ and over wit	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 (14°F) to +60°C (140°F)						
Degree of protection	IEC Standard IP67, JIS C0920 (water-tight), oil resistance						
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		

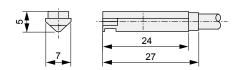
Descriptions	Reed 2-wire					
Descriptions	K0H	/K0V	K5H/K5V			
Applications	For programmable	le controller, relay	For programming controller relay (no indicator lamp), serial connection			
Power supply voltage	upply voltage -					
Load voltage	12/24 VDC	110 VAC	5/12/24 VDC	110 VAC		
Load current	5 to 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 (*3)			
Indicator lamp	Red LED (Lit when ON)		-			
Leakage current	0 mA					
Lead wire length	1 m (oil resistant vinyl cabtyre cable 2-conductor 0.2 mm²)					
Shock resistance	294 m/s²					
Insulation resistance	$20~\text{M}\Omega$ and over with 500 VDC megger					
Withstand voltage	No failure after 1 minute of 1,000 VAC application.					
Ambient temperature	-10 (14°F) to +60°C (140°F)					
Degree of protection	IEC Standard IP67, JIS C0920 (water-tight), oil resistance					
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 cylinders is a custom order.
*3: Internal resistance 0.5 Ω or less.
*4: Refer to Intro Page 80 for contact protective measures.

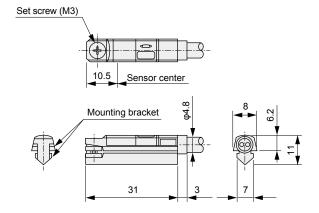
Dimensions

K*H Series (axial lead wire)

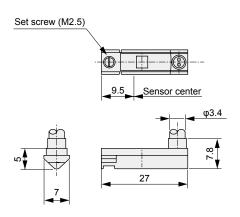




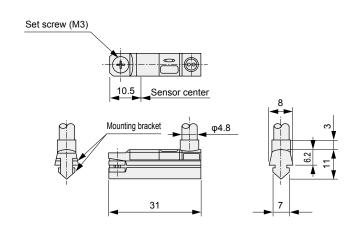
★ K*YH Series(2-color display, axial lead wire)



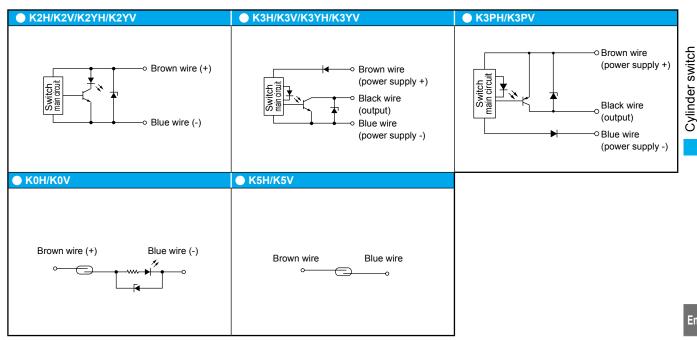
K*V Series (radial lead wire)



K*YV Series(2-color display, radial lead wire)



Switch internal circuit diagram



Ending