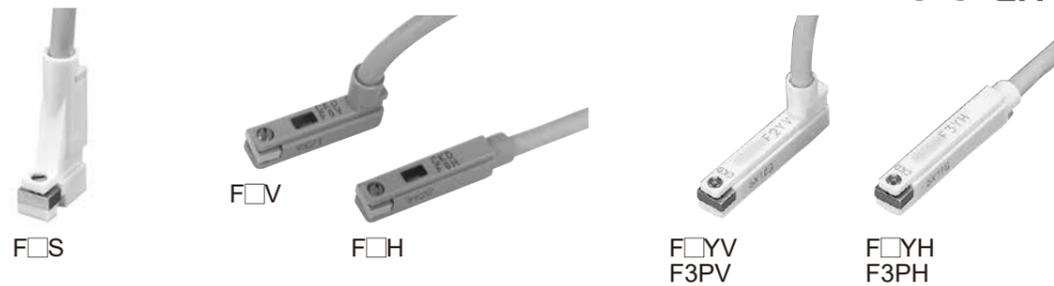


<b>F Series</b>	Applicable Cylinder	CKL2, LCG, LCM, LCR, MDC2, MSD, MSDG-L, MVC, RCS2, SSD2, STM, Gripper (LSH, BSA2, LHA)
-----------------	---------------------	--

Flexible lead wires are used as standard.

\*Some bore sizes cannot be combined.



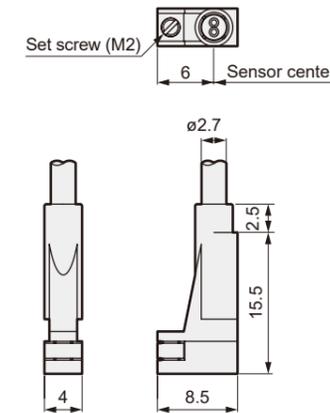
Specifications

Item	Reed 2-wire type		Solid state 2-wire type		Solid state 3-wire type		
	F0H/V	F2H/V, F2S	F2YH, F2YV	F3H/V, F3S	F3PH/V	F3YH, F3YV	
Applications	For programmable controller only			For programmable controller, relay			
Output method	-			NPN output	PNP output	NPN output	
Power supply voltage	-			10 to 28 VDC	4.5 to 28 VDC	10 to 28 VDC	
Load voltage	24 VDC ±10%	10 to 30 VDC	24 VDC ±10%	30 VDC or less			
Load current	5 to 20 mA (*1)			50 mA or less			
Current consumption	-			10 mA or less at 24 VDC			
Internal voltage drop	4 V or less			0.5 V or less	0.5 V or less at 30 mA	0.5 V or less	
Indicator Lamp	Yellow LED (Lights up when ON) *3		Red/Green LED (Lights up when ON)	Yellow LED *3 (Lights up when ON)	Yellow LED (Lights up when ON)	Red/Green LED (Lights up when ON)	
Leakage current	1 mA or less			10 µA or less			
Lead wire length	1 m (Flexible, oil-resistant vinyl cable cord 2-core 0.15 mm <sup>2</sup> )		1 m (Flexible, oil-resistant vinyl cable cord 3-core 0.15 mm <sup>2</sup> )				
Shock resistance	294 m/s <sup>2</sup>	980 m/s <sup>2</sup>					
Insulation resistance	20 MΩ or more with 500 VDC megger						
Dielectric strength	No abnormality when AC1000 V is applied for 1 minute						
Ambient Temperature	-10 to +60°C						
Protection structure	IEC standard IP67, JIS C0920 (Immersible type)						
Contact protection circuit *4	None		-				
Weight	1 m: 10 g 3 m: 29 g		1 m: 10 g 3 m: 29 g				

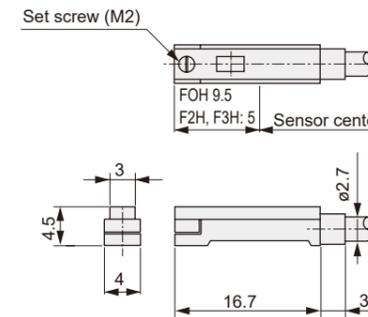
\*1: The maximum load current for F2H and F2V is 20 mA at 25°C. If the switch operating ambient temperature is higher than 25°C, it will be lower than 20 mA. (It will be 5 to 10 mA at 60°C.)  
 \*2: For F2S and F3S, when mounting two switches in one groove for both-end detection, please mount them so that the set screw parts of each switch face outward.  
 \*3: The indicator light for F2S and F3S is red.  
 \*4: For contact protection measures, see P. 1026.  
 \*5: Flexible lead wires are used.

Outline Dimension Drawing

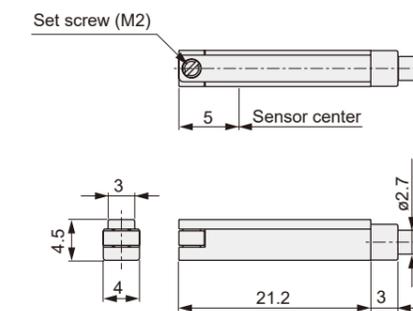
●F□S series (Lead wire vertical extraction short stroke detection type)



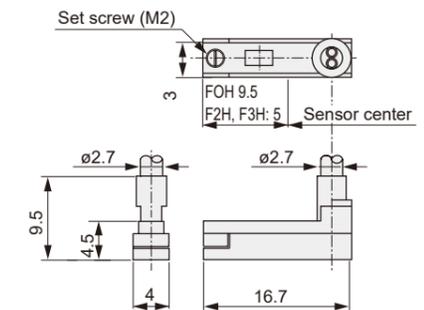
●F□H series (Straight lead wire type)



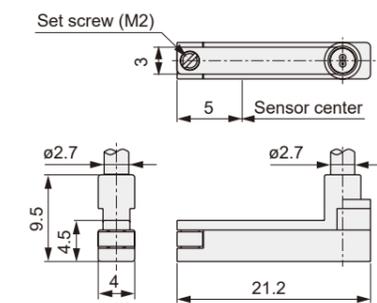
●F□YH / F3PH series (Straight lead wire type)



●F□V series (L-shaped lead wire type)



●F□YV / F3PV series (L-shaped lead wire type)



Switch internal circuit diagram

