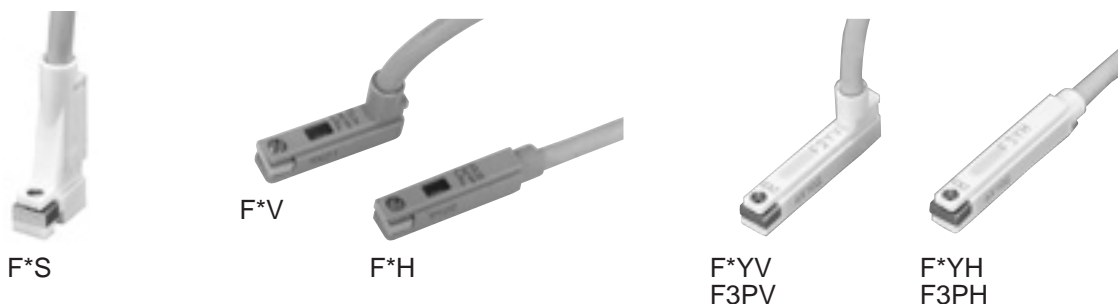


F Series	Application cylinder	CKL2 LCG LCM LCR MDC2 MSD MSDG-L MVC RCS2 SSD2 STM hand (LSH BSA2 LHA)
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Uses a bend-resistant lead wire as standard.

* There are bore sizes which cannot be combined.



Specifications

Item	2-wire reed	2-wire proximity		3-wire proximity		
	F0H/V	F2H/V / F2S	F2YH/F2YV	F3H/V / F3S	F3PH/V	F3YH/F3YV
Applications	Dedicated for programmable controller			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 with 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	Yellow LED (Lit when ON)	*3	Red/green LED (Lit when ON)	Yellow LED *3 (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 (elasticity, oil resistant vinyl cabtyre cable 2-conductor 0.15mm ²)			1 m (elasticity, oil resistant vinyl cabtyre cable 3-conductor 0.15mm ²)		
Shock resistance	294m/s ²	980 m/s ²				
Insulation resistance	20 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)					
Contact protection circuit*4	None	-				
Weight	1 m: 10 g 3 m: 29 g			1 m: 10 g 3 m: 29 g		

*1: The max. load current is 20mA 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: With F2S and F3S, if mounting two switches in one groove to enable detection at both ends, mount them so that their set screws face outward.

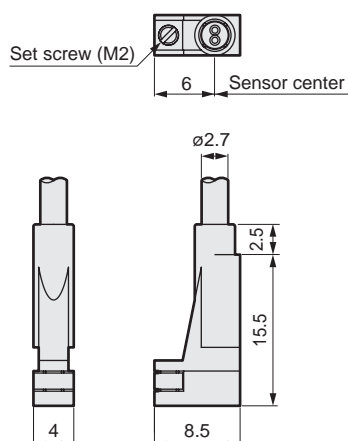
*3: Indicators for F2S and F3S are red.

*4: Refer to Intro Page 80 for contact protective measures.

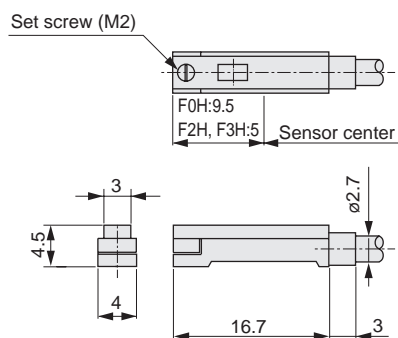
*5: Uses a bend-resistant lead wire.

Dimensions

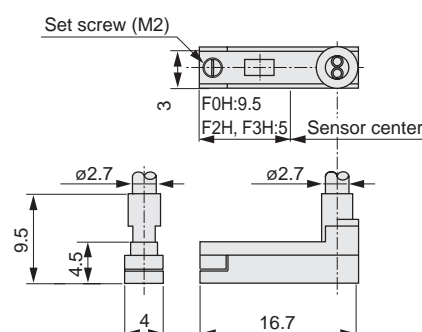
- F*S Series (Lead wire vertical lead-out, for short stroke detection)



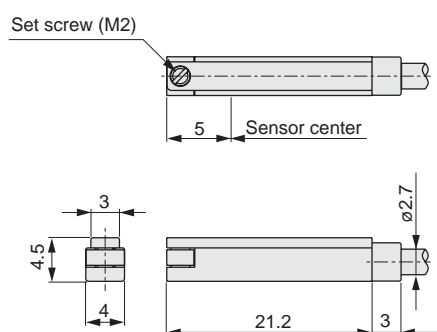
- F*H Series (straight lead wire)



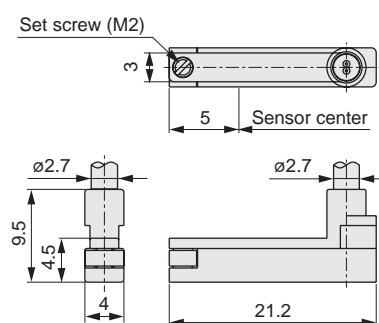
- F*V Series (L-shaped lead wire)



- F*YH/F3PH Series (straight lead wire)



- F*YV/F3PV Series (L-shaped lead wire)



Switch internal circuit diagram

● F0H/F0V	● F2S/F2H/F2V/F2YH/F2YV	● F3S/F3H/F3V/F3YH/F3YV	● F3PH/F3PV