

SCPD3	F Series	Applicable cylinder	MDC2/SSD2/STM/LCR/LCG/LCM
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* There are bore sizes which cannot be combined.



F*S



F*V

F*H



F*YV
F3PV



F*YH
F3PV



Specifications

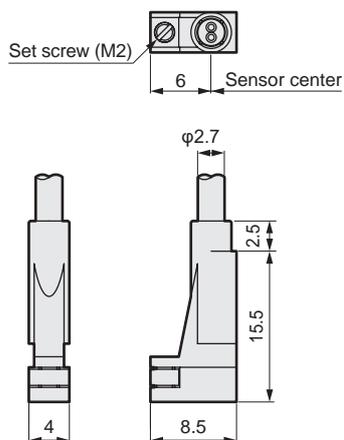
Descriptions	Reed 2-wire		Proximity 2-wire		Proximity 3-wire		Proximity 3-wire
	F0H/V	F2H/V, F2S	F2YH/F2YV	F3H/V, F3S	F3PH/F3PV	F3YH/F3YV	
Applications	Programmable controller			Programmable controller, relay			
Output method	-			NPN output	PNP output	NPN output	
Power supply voltage	-			10 to 28 VDC	4.5 to 28 VDC	10 to 28 VDC	
Load voltage	24 VDC	10 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 with 30 mA	0.5 V or less	
Indicator lamp	Yellow LED (Lit when ON) *3		Red/green LED (Lit when ON)	Yellow LED (Lit when ON) *3		Red/green LED (Lit when ON)	
Leakage current	1 mA or less			10 µA or less			
Lead wire length	1 m (bend resistant vinyl cabtyre cable 2-conductor 0.15 mm ²)			1 m (bend resistant vinyl cabtyre cable 3-conductor 0.15 mm ²)			
Max. shock resistance	294 m/s ²		980 m/s ²				
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 (14°F) to 60 (140°F)						
Degree of protection	IEC Standards IP67, JIS C0920 (waterproof)						
Contact protection circuit	No		-				
Weight	1 m: 10 g 3 m: 29 g			1 m: 10 g 3 m: 29 g			

*1: The maximum load current of 20 mA 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 when 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: Indicator lights for F2S and F3S are red.
 *4: Installation of F3PH, F3PV onto applicable cylinders is a custom order.
 *5: Contact CKD for cylinder switches with a connector.
 *6: For details of the contact protections measures, refer to page 320.
 *7: The bend resistant lead wire is used.

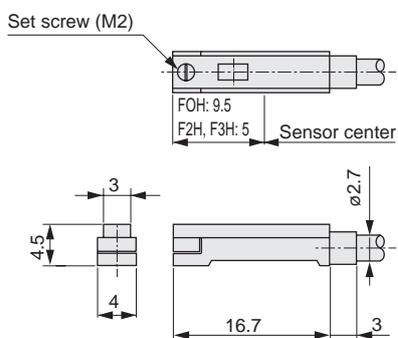
4GA/B
M4GA/B
MN4GA/B
F.R (module unit)
Clean F.R
Precision R
Press gauge Diff. press gauge
Electro-pneumatic R
Speed controller
Auxiliary valve
Fitting/tube
Clean air unit
Pressure sensor
Flow rate sensor
Valve for air blow
Ending

Dimensions

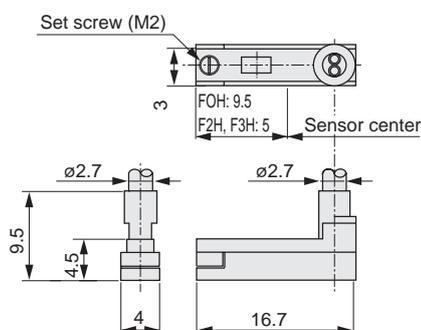
- F*S Series (lead wire vertical leadout short stroke detection)



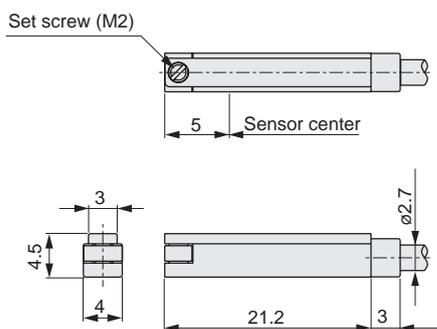
- F*H Series (Straight lead wire)



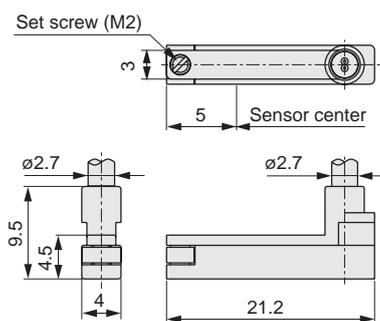
- F*V Series (L-type lead wire)



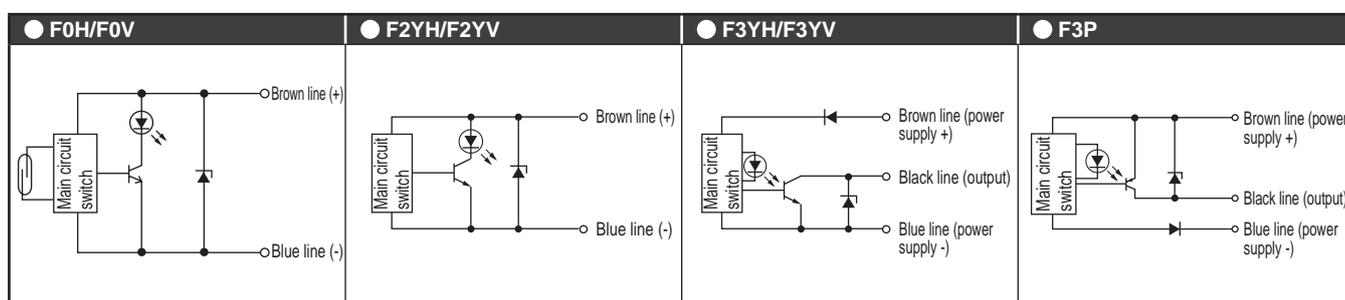
- F*YH/F3PH Series (Straight lead wire)



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



Switch internal circuit diagram



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