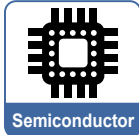
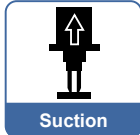


Features

- Response time $\leq 5\text{ms}$
- Slim size
- Light weight



Specifications

Model	003	005	010	050	100	R003	R005	R010	R050	R100
Measured Flow Rate Range	0 ~ 0.3 L/min	0 ~ 0.5 L/min	0 ~ 1 L/min	0 ~ 5 L/min	0 ~ 10 L/min	-0.3 ~ 0.3 L/min	-0.5 ~ 0.5 L/min	-1 ~ 1 L/min	-5 ~ 5 L/min	-10 ~ 10 L/min
Flow Direction	Unidirection					Bidirectional				
Withstand Pressure	300 kPa									
Fluid	Dry air, N ₂ , Non-corrosive / Non-flammable gas									
Power Supply Voltage	15 ~ 24 V DC ± 10 %, Ripple (P-P) ≤ 10 %									
Current Consumption	≤ 20 mA									
Accuracy	Repeatability	≤ ± 2 % F.S.								
	Linearity	Non-linearity								
	Temp. Characteristic ※1	≤ ± 0.6 % F.S./°C					≤ ± 0.3 % F.S./°C			
	Pressure Characteristic ※2	± 10 % F.S.					± 5 % F.S.			
Response Time	≤ 5 ms (90 % Response time)									
Indicator	Green LED									
Analog Output	Voltage Output Range : 1 ~ 5 V ± 5 % F.S. (± 0.2 V) (Non-linearity) Output Impedance : 1 KΩ									
Environment	Working Pressure Range	-100 ~ 200 kPa								
	Enclosure	IP40								
	Working Fluid Temp.	0 ~ 50 °C (No condensation or freezing)								
	Ambient Temp. Range	Operation : 0 ~ 50 °C ; Storage : -10 ~ 60 °C (No condensation or freezing)								
	Ambient Humidity Range	Operation / Storage : 35 ~ 85 % R.H. (No condensation)								
	Withstand Voltage	1000 V AC in 1-min (between case and lead wire)								
	Insulation Resistance	≥ 50 MΩ (500 V DC, between case and lead wire)								
	Vibration	Total amplitude 1.5 mm or 10 G, 10 Hz ~ 55 Hz ~ 10 Hz scan for 1 minute, 2 hours each direction of X, Y and Z								
Shock	100 m/s ² (10 G), 3 times each in direction of X, Y and Z									
Lead Wire	Ø2.6 Oil-resistance cable (PVC) - 26 AWG (0.15 mm ²) - 3 cores									
Weight	Product	Approx. 4 g (w/o Port) ; Approx. 9.6 g (M5 Port)								
	Lead Wire (3M)	31.8 g								

NOTE

※1 : Benchmark : 25 °C (Temperature range : 0 ~ 50 °C)

※2 : Benchmark : 150 kPa (Pressure range : -100 ~ 200 kPa)

Ordering Information

K F S - 0 0 3 - 0 1 - M 5

Flow Rate Range

003 : 0 ~ 0.3 L/min	R003 : -0.3 ~ 0.3 L/min
005 : 0 ~ 0.5 L/min	R005 : -0.5 ~ 0.5 L/min
010 : 0 ~ 1 L/min	R010 : -1 ~ 1 L/min
050 : 0 ~ 5 L/min	R050 : -5 ~ 5 L/min
100 : 0 ~ 10 L/min	R100 : -10 ~ 10 L/min

Output Specifications

01 : 1 Analog outputs 1 ~ 5 V

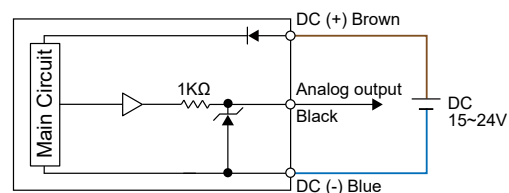
Port Size

Blank : None
M5 : M5 female thread

Optional Parts

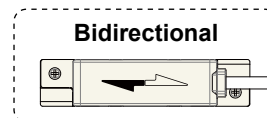
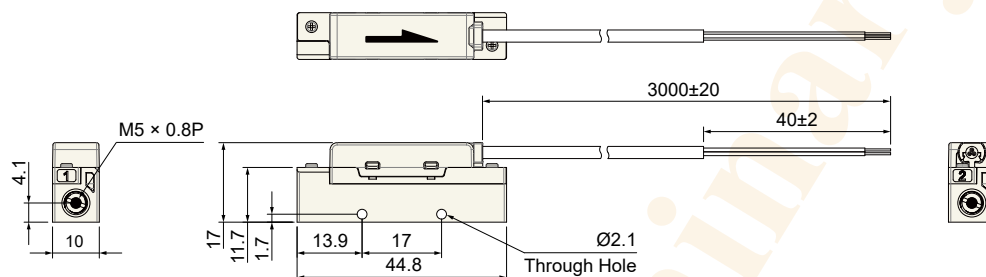
BT-30-1 : Fit with 1 sensor (Brackets + M2 × 0.4P × 15L screws)
BT-30-2 : Fit with 2 sensors (Brackets + M2 × 0.4P × 25L screws)
BT-30-3 : Fit with 3 sensors (Brackets + M2 × 0.4P × 35L screws)
BT-30-4 : Fit with 4 sensors (Brackets + M2 × 0.4P × 45L screws)
BT-30-5 : Fit with 5 sensors (Brackets + M2 × 0.4P × 55L screws)

Output Circuit Wiring Diagrams

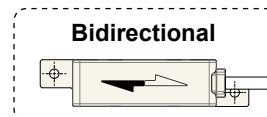
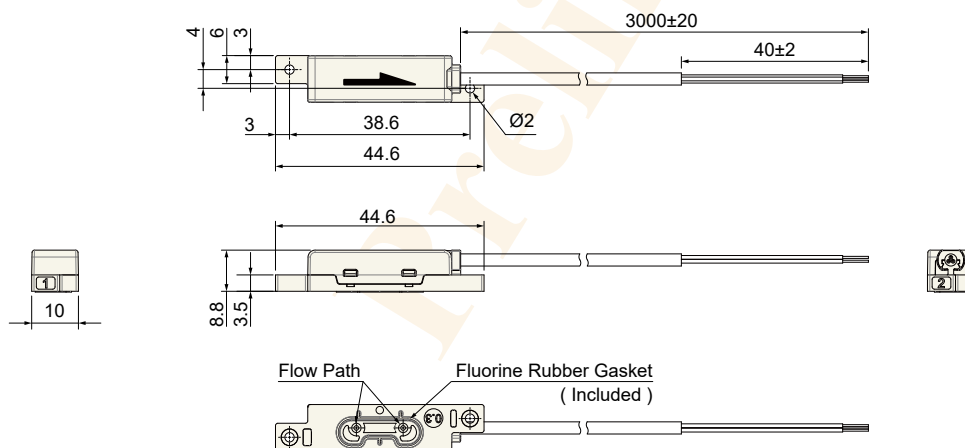


Dimensions

• KFS - □ - 01 - M5

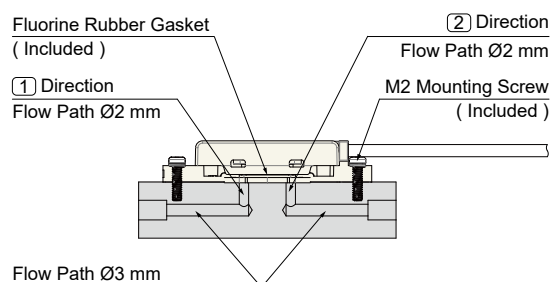
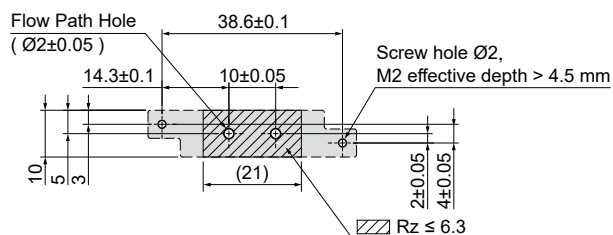


• KFS - □ - 01



Installation Dimension

• Top View



Unit : mm