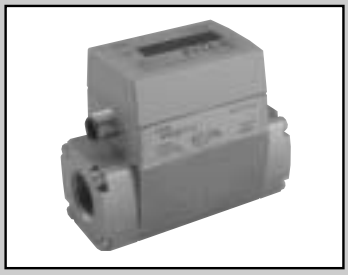


Flow sensor

WFK5000 Series

(Standard type)

Flow rate range: 1.0 to 8.0, 3.0 to 27.0L/min.

Refer to Intro 32 for details.

Specifications

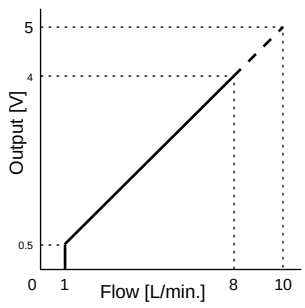
Descriptions			WFK5008-10	WFK5008-15	WFK5008-20	WFK5027-10	WFK5027-15	WFK5027-20
Specifications	Flow measuring range L/min		1.0 to 8.0			3.0 to 27.0		
	Port size Rc		3/8	1/2	3/4	3/8	1/2	3/4
	Connection section material		Stainless steel: SCS13					
	Pressure loss MPa		0.045 (8.0L/min)			0.04 (27.0L/min)		
Working conditions	Working fluid		Clean water, industrial water					
	Max. working pressure MPa		1.0					
	Withstanding pressure MPa		1.5					
	Fluid temperature ℃		1 to 70					
	Ambient temperature ℃		0 to 50 (85%RH or less)					
Indicator			5 digit LED display					
Integrated flow			Max.9 digit H and L separately displayed When power supply turns off, counter is reset					
Output	Alarm output	Point	1 point (NPN/PNP transistor open collector)					
		Rated	MAX 50mA					
		Internal voltage drop	2.0V or less					
	Analog output		0 to 5 VDC (linear output) standard					
	Precision		±2.5%F.S. ±1 digit					
Alarm output response time sec			Approx. 1.0 (Note)					
Power supply			12 to 24 VDC ±10% (Max. 100mA) 15 to 24 VDC for option A3					
Cable			Attachment (3m, 4 conductors, O.D. ϕ6, conductor 0.5mm^2, with connector)					
Installation attitude			Horizontal or vertical					
Protective structure			IP64 or equivalent					
Weight g			630	600	650	630	600	650

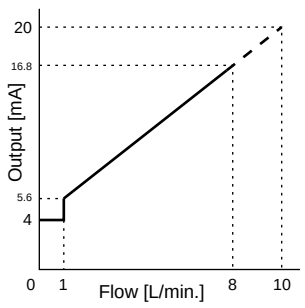
Note: Time to reach 70% of the original output when flow rate is instantly set to zero from the normal (usage) flow rate.

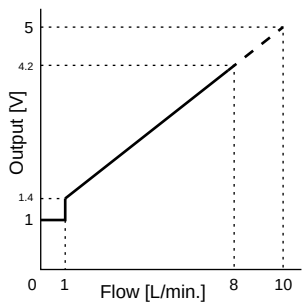
Analog output

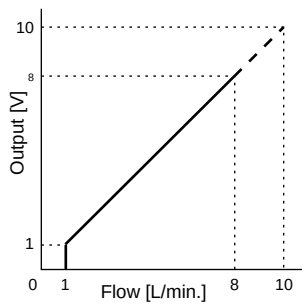
● WFK5008-**

- blank: 0 to 5V	-A1: 4 to 20mA	-A2: 1 to 5 V	-A3: 0 to 10 V
Measuring range: 1 to 8L/min.	Measuring range: 1 to 8L/min.	Measuring range: 1 to 8L/min.	Measuring range: 1 to 8L/min.









Connecting load conditions

Descriptions	Blank [0 to 5]	-A1 [4 to 20 mA]	-A2 [1 to 5 V]	-A3 [0 to 10 V]
Allowable load	50k Ω and over	500k Ω or less	50k Ω and over	50k Ω and over

How to order

WFK 5 027 – 15 – P A3 B

- Ⓐ Port shape, material
- Ⓑ Flow rate range
- Ⓒ Port size (Note 1)
- Ⓓ Alarm output type
- Ⓔ Analog output
- Ⓕ Bracket (Note 5)

Symbol	Descriptions	
Ⓐ Port shape, material		
5	Shape: female thread Material: stainless steel (SCS13)	
Ⓑ Flow rate range		
008	1 to 8L/min.	
027	3 to 27L/minl	
Ⓒ Port size		
10	Rc3/8	
15	Rc1/2	
20	Rc3/4	
10N	3/8NPT	
15N	1/2NPT	
20N	3/4NPT	
Ⓓ Alarm output type		
Blank	NPN transistor open collector	
P	PNP transistor open collector	
Ⓔ Analog output		
Blank	0 to 5 VDC	Note 2
A1	4 to 20mA DC	Note 3
A2	1 to 5 VDC	
A3	0 to 10 VDC	
A4	Without analog output	
A5	2 points alarm output	Note 4
Ⓕ Bracket		
Blank	None	
B	With bracket	

Note on model no. selection

Note 1: When using American taper pipe thread, add "N" to the port size.
Note 2: If CKD monitor (WM10** [refer to page 1482]) is connected, select Ⓔ analog output 0 to 5 VDC.
Note 3: When selecting analog output A1: 4 to 20mA, alarm function can not be used.
Note 4: When selecting analog output A5: 2 points alarm output, analog output can not be used.
Note 5: For option B, a bracket and set screw are attached.
When ordering a bracket only, indicate part name: bracket assembly and model no. WF-FL-249969.

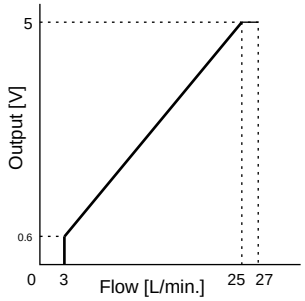
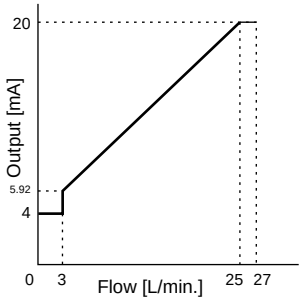
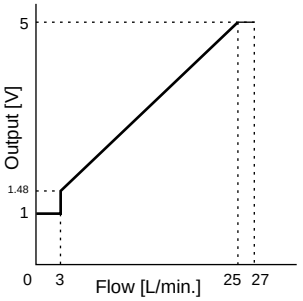
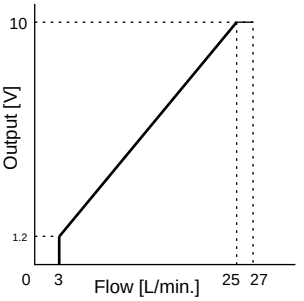
<Example of model number>

WFK5027-15-PA3B

Model: Flow rate sensor standard type
Ⓐ Port shape, material: Shape: female thread, Material: stainless steel
Ⓑ Flow rate range: 3 to 27L/min.
Ⓒ Port size: Rc1/2
Ⓓ Alarm output type: PNP transistor open collector
Ⓔ Analog output: 0 to 10 VDC
Ⓕ Bracket: With bracket

Analog output

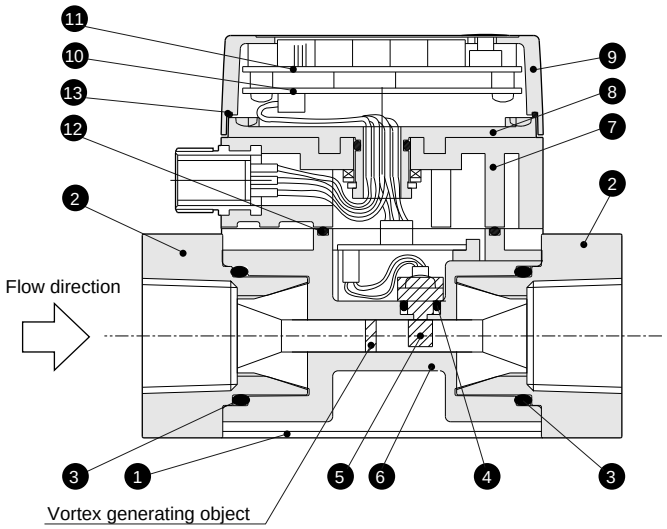
● WFK5027-**

- blank: 0 to 5V	-A1: 4 to 20mA	-A2: 1 to 5 V	-A3: 0 to 10 V
Measuring range: 3 to 27L/min.	Measuring range: 3 to 27L/min.	Measuring range: 3 to 27L/min.	Measuring range: 3 to 27L/min.
			

Connecting load conditions

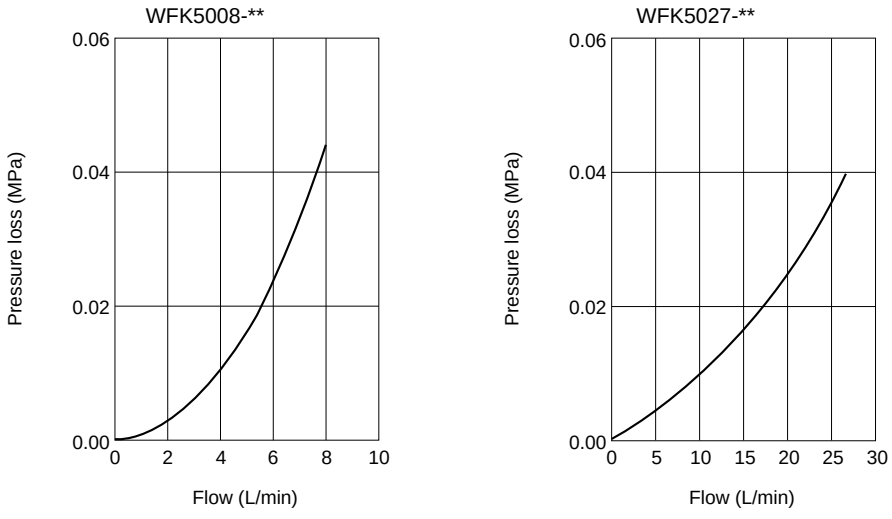
Descriptions	Blank [0 to 5]	-A1 [4 to 20 mA]	-A2 [1 to 5 V]	-A3 [0 to 10 V]
Allowable load	50kΩ and over	500kΩ or less	50kΩ and over	50kΩ and over

Internal structure and parts list

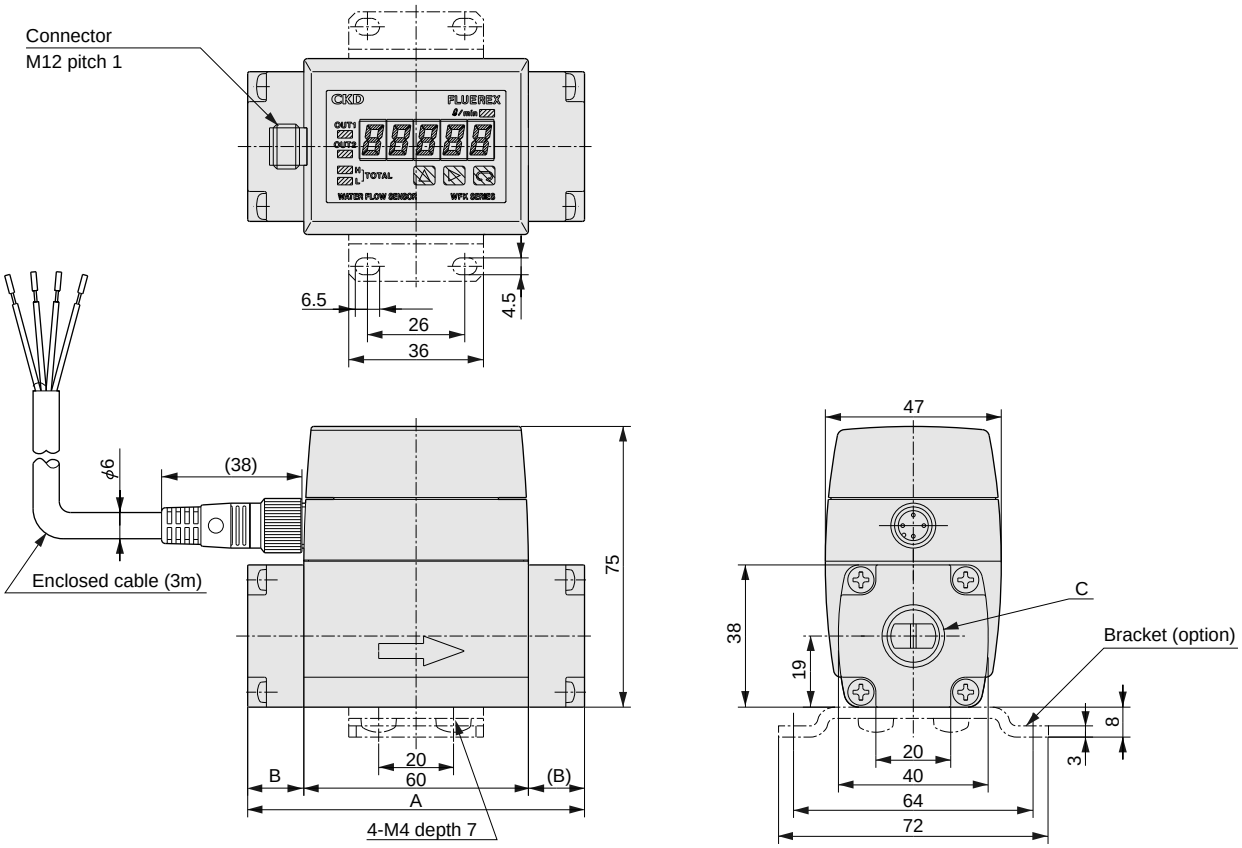


No.	Parts name	Material		Quantity
1	Body	SCS13	Stainless steel casting	1
2	Attachment	SCS13	Stainless steel casting	2
3	O ring	NBR	Nitrile rubber	2
4	O ring	NBR	Nitrile rubber	1
5	Vortex street detecting element	PPS	Polyphenylene sulfide	1
6	Sleeve	PPS	Polyphenylene sulfide	1
7	Connector case	ABS	ABS resin	1
8	Case B	ABS + PC	ABS + PC alloy	1
9	Case A	ABS	ABS resin	1
10	CPU circuit board	-	-	1
11	Display circuit board	-	-	1
12	Sleeve packing seal	NBR	Nitrile rubber	1
13	Case packing seal	NBR	Nitrile rubber	1

Pressure loss



Dimensions



Model no.	A	B	C
WFK50**-10	90	15	Rc3/8
WFK50**-15	90	15	Rc1/2
WFK50**-20	105	22.5	Rc3/4
WFK50**-10N	90	15	3/8NPT
WFK50**-15N	90	15	1/2NPT
WFK50**-20N	105	22.5	3/4NPT