Impeller flow meter FS Series FS-AR

Feature

Impeller type of flow meter.

- Over 100,000 units supplied for use as device coolant-water monitors to leading manufacturers of semiconductor/liquid crystal product devices worldwide.
- Analog output
- Relay output

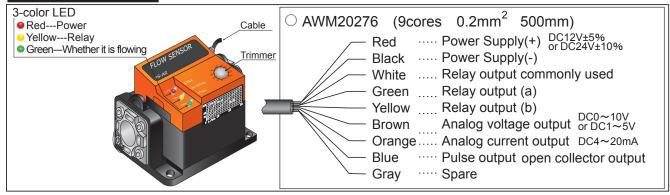
If the actual flow rate is more than the set value, or falls below, the relay circuit is activated. It can use as a guide, such as stop and alarm operation of the device.

- Pulse output (Open collector)
- 3-color LED for confirming flow conditions.

Red---Power Yellow---Relay Green---Whether it is flowing



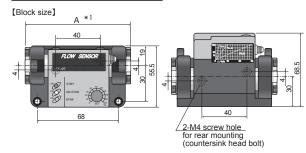
Wiring (Interface)



Specifications

Model		FS-3AR	FS-10AR	FS-30AR		
Rated flow range			1.5~10.0L/min	5.0~30.0L /min		
Applicable fluid		Industrial water, Water				
Detection type	- ' '		Impeller type			
Fluid temperature		0~60°C (No freezing , no dewing)				
Operating temperature		0~40°C (No freezing, no dewing)				
Accuracy *2		±2.5% F.S.				
Max.working pressure		1.0MPa				
Power supply voltage *3		DC12V±5% or DC24V±10%				
Current consumption		Max. 50mA (DC1~5V, 4~20mA : MAX70mA)				
Cable		AWM20276 (9cores 0.2mm ² 500mm)				
*4	Max. load current	Less than DC2A				
Relay output	Max. applied voltage	Less than DC30V				
	Output mode	a or b contact output				
*5	Voltage output	DC0~10V				
Analog output		DC1~5V				
	Current output	DC4~20mA				
	Max. load current	Less than DC100mA				
*6	Max. applied voltage	Less than DC40V				
Pulse output	Output mode	A or B open collector output				
	Frequency outputs	0~43Hz	0∼93Hz	0~121Hz		
Standard		RoHS compliance (Only SUS adapter)				
Wetted material		Polyacetal,Polyamide				
Connection material		SUS or BsBM (Ni plating)				
O-ring for sealing		Chloroprene or Fluoro rubber				
Orifice diameter		ф5	ф7	ф10		
Adapter connection size		Rc3/8 or Rc1/2				
Weight		Approx. 380g				
Mounting position		Free				
Flow direction		Both direction				
Construction		Water drip-proof against electronic circuit				

Dimensions



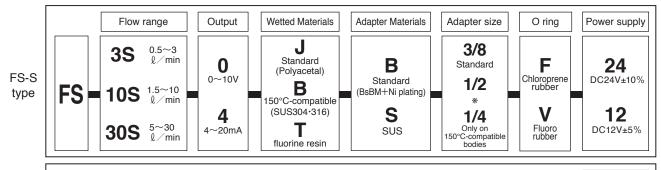
[A Dimension Table]

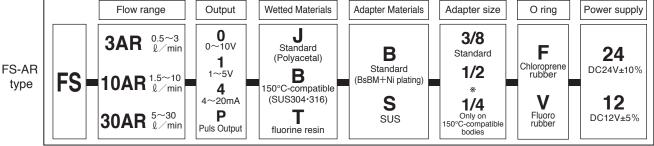
Adapter	A Dimension		
connection size	BsBM	SUS	
Rc3/8	92	98	
Rc1/2	115	115	

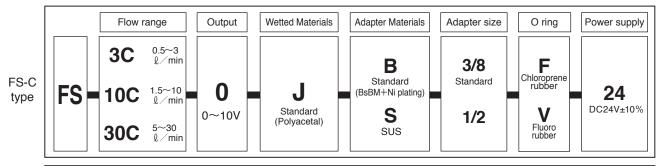
- Dimention A differ depending upon the adapter type. Adapter connection size is determined by the selection at the time of the order.
- *2 Since F.S.(Full scale) is $\begin{cases} 30L/\text{min} \\ 10L/\text{min}, \text{ the deflection could be of } \\ 3L/\text{min} \end{cases}$ $\frac{\pm 0.75L/\text{min.}}{\pm 0.075L/\text{min.}}$
- *3 Power supply is transmitted of either DC 12V or DC 24V on the time of the order.
- Relay output is set on the time of the order, 3AR = 2.0L/min, 10AR = 6.0L/min, and 30AR = 20.0L/min.
- Analog output is selected of either voltage or current output on the time of the order. Please select and use one or the other. When the analog voltage output is selected,the analog current output cannot be selected.
- *6 When the pulse output is selected, the analog output cannot be selected.

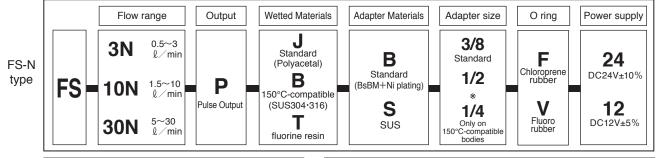


How to order : FS-10S-0-J-B-3/8-F-24









Regarding < Adapter size >

The diameter type of the connection section differs depending on the type of body material.

Please refer to the table below when filling out your order form.

Motted Meterials	Connection diameter			
Wetted Materials	3/8	1/2	1/4	
Standard type(J)	•			
150°C/Compliant(B)				
fluorine resin type(T)	•			

Regarding < Adapter size > Regarding < Adapter material/O-ring >

- When selecting "B: 150°C-compatible" as the body material, do not fill in the adapter material and O-ring fields.
- When selecting "T: Fluororesin" as the body material, do not fill in the O-ring field. We also offer products in which the adapter material is fluororesin. Please contact our sales department for details.
 - * 1/4 diameter cannot be selected for 30L specification.

Other

- ① Please contact our sales department for other specifications.
- ② Please contact our sales department for inquires regarding date of delivery, etc.
- ③ Shape and specification may change without notice due to performance improvements.