

FLOW SWITCH WITH COMPACT RELAY CONTROLLER

FST-211-R



- ✓ Offered in Liquid and Gas Configurations
- ✓ All-Plastic Construction with PP or PVDF Materials for Corrosive Environments
- ✓ Invert Switch Provides Simple NO or NC Relay Operation
- ✓ LED Indicators for Fluid, Relay, and Power Status
- ✓ 0 to 60 Second Time Delay Dampens Out Relay Chatter
- ✓ Fail-Safe Controller Provides Direct Actuation of Pumps, Valves, and Blowers

SPECIFICATIONS

Relay Controller
Supply Voltage: 120/240 Vac 50/60 Hz
Consumption: 0.25 A
Relay Type: (1) SPDT
Relay Current: 10 A, 250 Vac, ½ hp
Relay Mode: NO or NC selectable
Time Delay: 0 to 60 s
Temp Range: -40 to 70°C (-40 to 158°F)
Enclosure Rating: NEMA 4X (IP66)
Enclosure Material: Polypropylene (UL 94VO)
Enclosure Rotation: 300° swivel base
Conduit Connection: ½ NPT
Sensor
Range: 0.04 to 3 ft/s (liquids)
Accuracy: ±5% of setpoint at constant temperature and flow rate
Response Time: 10 s (approx.)
Setpoint Drift with Fluid Temperature: 0.5%/°C
Fluid Temperature: 60°C (140°F)
Maximum Fluid Pressure: PP or PVDF: 150 psi @ 25°C (77°F) derated @ 1.7 psi/°C above 25°C (77°F)
Process Connection: ¾ MNPT
Dimensions: 208 L x 71 mm Dia (8.2 x 2.8")

Application

This switch package offers a complete solution for flow or no-flow switching in pipes or ducting up to 0.3 m (12"). The compact relay controller reliably actuates valves, pumps, or blowers rated up to ½ hp. Common applications include low-flow pump or process protection. To complete the instrumentation package, simply select the switch configuration in accordance with the liquid or gas used in your application.

LIQUID APPLICATION VARIABLES

	Variable	Yes	No
Liquid	Clean	✓	
	Slurry	✓	
	Bubbles		✓
	Coating		✓
	Non-Coating	✓	
	Low Viscosity	✓	
	Med. Viscosity	✓	
	High Viscosity		✓
	Low Temperature	✓	
	Med. Temperature		✓
	High Temperature		✓
	Δ Temperature		✓
Low Velocity	✓		
High Velocity		✓	



FST-211-R shown smaller than actual size.

GAS APPLICATION VARIABLES

	Variable	Yes	No
Gas	Low Temperature	✓	
	Med. Temperature	✓	
	High Temperature		✓
	Δ Temperature		✓
	Coating		✓
	Non-Coating	✓	
	Low Velocity	✓	
	High Velocity		✓

To Order

Model No.	Description	Material	Wetted Pipe Size
FST-211-R	Liquid flow switch with relay	PP/PVDF	¾ to 1½"
FST-212-R	Liquid flow switch with relay	PVDF	¾ to 1½"
FST-221-R	Liquid flow switch with relay	PP/PVDF	2 to 12"
FST-222-R	Liquid flow switch with relay	PVDF	2 to 12"
FST-321-R	Gas flow switch with relay	PP/PVDF	¾ to 1½"
FST-322-R	Gas flow switch with relay	PVDF	¾ to 1½"
FST-323-R	Gas flow switch with relay	PP/PVDF	2 to 12"
FST-324-R	Gas flow switch with relay	PVDF	2 to 12"
Flow Switch Fittings, Use with 3" Sensor Only (1/8 - 1/2" Pipe and Tubing)			
FT-51	Use with 0.05 to 1.53 GPM range	PP	1/8 to 1/2"
FT-52	Use with 0.10 to 6.53 GPM range	PVDF	1/8 to 1/2"

Comes complete with operator's manual.

Ordering Examples: FST-211-R, CE-approved polypropylene liquid flow switch with relay. FST-321-R, PP/PVDF gas flow switch.