

 Contact our sales office regarding a delivery date or a price since this is a special model.

SP125X-004E  
P: OS

 *P.G.Information (Specialized Product)*

## Digital Flow Switch PF3W7\*\*-U16-A-M-X153

SMC CORPORATION  
4-14-1, SOTO-KANDA,  
CHIYODA-KU,  
TOKYO 101-0021, JAPAN  
URL: <http://www.smcworld.com>

### ■Features:

- 4 and 16 liters/min types
- Available with polyvinyl chloride piping.

### ■Application examples

- Control of cooling water.
- Control of cleaning water.



### ■Product Number

- 4L/min type: PF3W704-U16-A-M-X153
- 16L/min type: PF3W720-U16-A-M-X153

### ■Specifications varying from the standard type

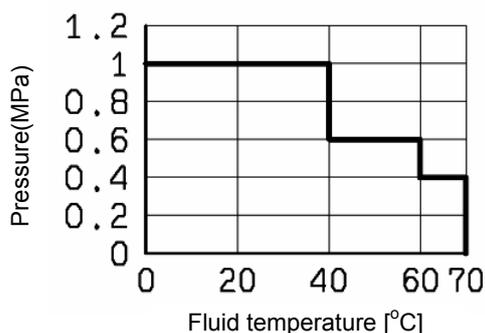
- Availability of polyvinyl chloride piping type.
- Change of accumulated volume per pulse.
  - 4L/min type: 0.01L/pulse
  - 16L/min type: 0.05L/pulse

## ■ Specifications:

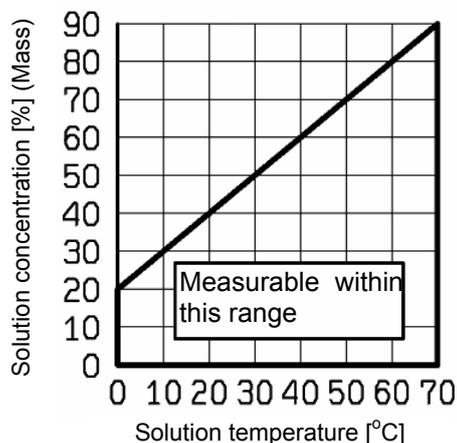
Model		PF3W704-U16-A-M-X153	PF3W720-U16-A-M-X153	
Fluid	Applicable fluid <sup>Note 1)</sup>	Water and ethylene glycol aqueous solution (with viscosity of 3 mPa·s [3 cP] or less)		
	Fluid temperature range	0 to 70°C (with no freezing and condensation)		
Flow	Rated flow range	0.5 to 4L/min	2 to 16 L/min	
	Minimum setting unit	Instantaneous flow rate	0.01L/min	0.1L/min
		Accumulated flow	0.1L	0.5L
Pressure	Pressure temperature range <sup>Note 2)</sup>	0.1MPa		
Power supply voltage		12 to 24 VDC ±10%		
Accuracy	Display accuracy	±3%F.S		
Repeatability <sup>Note 3)</sup>		±2%F.S		
Switch output	Output type	NPN open collector output		
	Output mode	Select from hysteresis mode, window comparator mode, accumulated output mode, or accumulated pulse output mode.		
	Switch operation	Select from normal output or reverse output		
	Maximum load current	80 mA		
	Maximum applied voltage	DC28V		
	Internal voltage drop	1 V or less (at 80 mA load current)		
	Response time <sup>Note 3/4)</sup>	0.5s/1s/2s		
Protection	Short circuit protection			
Environment	Enclosure	IP65		
Wetted parts material		PPS, FKM, CPVC		
		Non-grease		

### Note

1. Refer to the graph of the measurable ranges of ethylene glycol solution.  
Measurable when the fluid does not corrode the fluid contact part with the viscosity of 3 mPa·s[3 cP] or less.
2. The operating pressure range and the withstand pressure vary depending on the fluid temperature.  
Refer to the graphs of the operating pressure and withstand pressure.
3. The repeatability is +/- 3% F.S. when the response time of the switch output is set to 0.5 s.
4. The response time when the set value is 90% in relation to the step input.



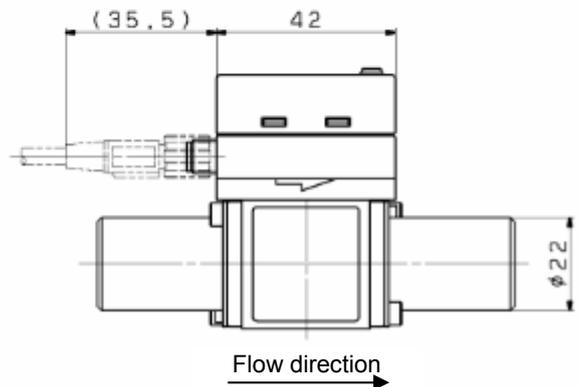
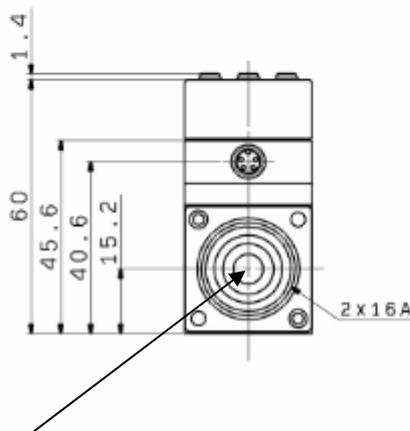
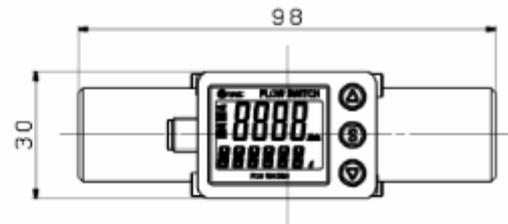
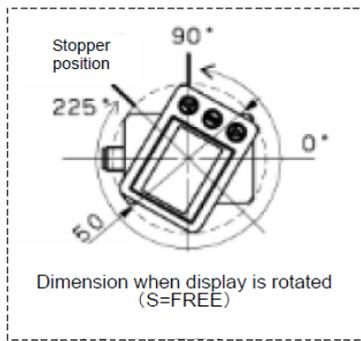
Operating pressure and  
Withstand pressure



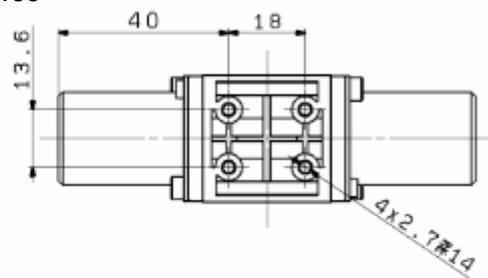
Measurable ranges of ethylene glycol solution  
(Reference value)

# ■ Dimensions: mm

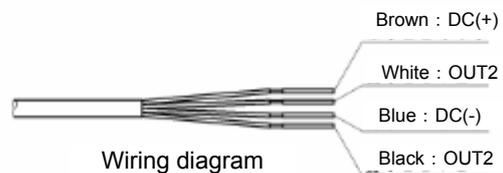
<PF3W704-U16-A-M-X153 / PF3W720-U16-A-M-X153>



\* Flow passage diameter of PF3W704-U16-A-M-X153 and PF3W720-U16-A-M-X153 differs.



Pin no.	Pin name
1	DC (+)
2	OUT2
3	DC (-)
4	OUT1



**Caution** To ensure the safest possible operation of this product, please be sure to read thoroughly the "Safety Instructions" in our "Best Pneumatics" catalog before use.