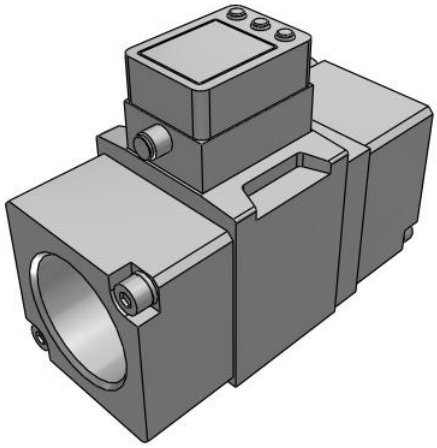


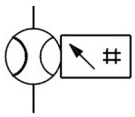
PF3W7, Digital Flow Switch for Water, 3-Colour Display, Integrated display

PF3W721-F12-FTN-M

Datasheet

General series information

- Compact size.
- Rotary display.
- Display visibility improved.
- Built-in temperature sensor.
- IP65, RoHS Compliant & CE Compliant.



Flow meter with digital display

Standard specifications

Output Specification	F (OUT1: PNP - OUT2: Analogue 4 to 20 mA)
Bracket	None
Temperature Sensor	T (With Temperature Sensor)
Rated Flow Range	21 (50 to 250 l/min)
Flow Adjustment Valve	None
Port Size	12 (1 1/4)
Calibration Certificate	None
Made to order	None
Thread Type	F (G)
Lead Wire	N (Without Lead Wire, With M8 Connector)
Integrated display/Unit specification	M (Flow Rate: l/min, Temperature: °C)
Proof pressure	1.5 MPa
General power supply	12 to 24 VDC ±10 %
Response time	0.5 s/ 1 s/ 2 s
Intenal voltage drop	1.5 V or less (at load current of 80 mA)
Current consumption	50 mA or less
Material	PPS, Stainless steel 304, FKM, SCS13, Non-grease
Enclosure	IP65

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Repeatability	±2 % F.S.
Applicable fluid	Water and ethylene glycol aqueous solution (with viscosity of 3 mPa·s [3 cP] or less)
Analog current output	4 to 20 mA Max. load impedance: 300 Ω for 12 VDC, 600 Ω for 24 VDC
Flow display range	20 to 350 l/min (Flow under 20 l/min is displayed as “0”)
Operating temperature range	Operation, Storage: 35 to 85 % R.H. (No condensation)
Pressure range	0 - 1 MPa
Accuracy	Display value: ±3 % F.S. Analogue output: ±3 % F.S.
Smallest settable increment	2 l/min
Max. load current	80 mA
Hysteresis mode	Variable
Display	2-screen display (Main screen: 4-digit, 7-segment, 2-colour, Red/Green Sub screen: 6-digit, 11-segment, White) Display values updated 5 times per second
Indicator light	Output 1, Output 2: Orange
Withstand voltage	1000 VAC for 1 minute between terminals and housing
Insulation resistance	50 MΩ or more (500 VDC measured via megohmmeter) between terminals and housing
Temperature characteristics	±5 % F.S. (25 °C standard)
Standards	CE, UL
Flow detection method	Karman vortex
Switch output protection	Short-circuit protection
Fluid temperature	0 to 70 °C (No freezing or condensation)
Pressure loss (without flow adjustment valve)	60 kPa or less at the maximum flow
Conversion of accumulated pulse (Pulse width: 50 ms)	2 L/pulse
Display unit	Instantaneous flow: l/min, Accumulated flow: L
Accumulated flow range	999999999 L
Switch output mode Flow rate	Select from Hysteresis, Window comparator, Accumulated output, or accumulated pulse output modes.
Switch output mode Temperature	Select from Hysteresis mode or Window comparator mode.
Set flow range	20 - 350 l/min
Switch output Max. applied voltage	28 VDC
Weight	1.075 Kg

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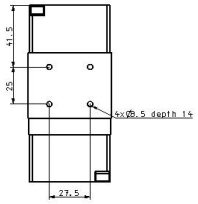
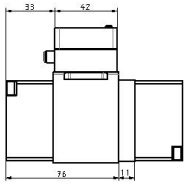
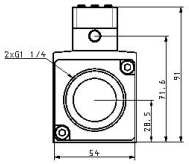
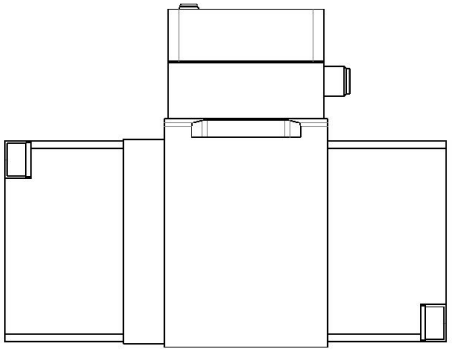
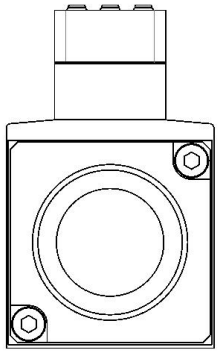
Dimensions

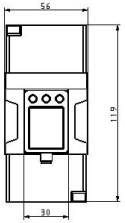












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Constructions

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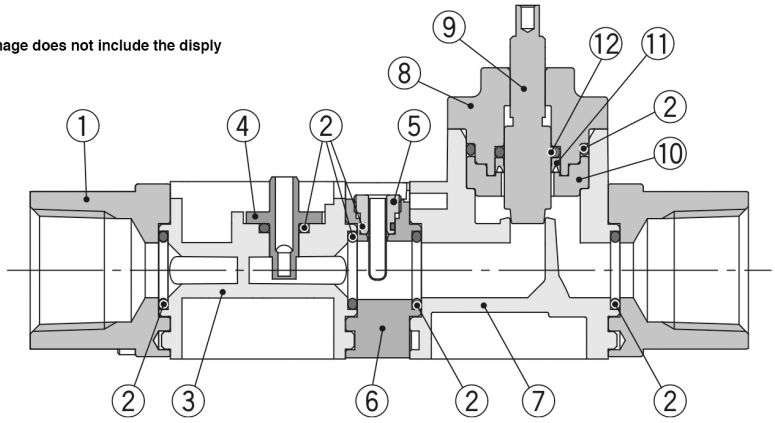

Component Parts

No.	Description	Material	Note
1	**Attachment**	SCS13	Stainless steel 304 equivalent PF3W704/720/740/711/504/520/540/511
		Stainless steel 304	PF3W721/521
2	**Seal**	FKM	
3	**Body**	PPS	
4	**Sensor**	PPS	
5	**Temperature sensor**	Stainless steel 304	
6	**Temperature sensor body**	Stainless steel 304	
7	**Flow adjustment valve body**	PPS	
8	**Flow adjustment valve cover**	PPS	
9	**Flow adjustment valve shaft**	Stainless steel 304	
10	**Shaft support**	PPS	
11	**Seal**	FKM	
12	**Seal**	FKM	

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Additional information

Catalogue	PF3W-Dd_EU.pdf
Declaration of conformity	newDoC_PF3W_TF1Y123EN.pdf DoC_PF3Wx_TFG0006.pdf
Installation manuals	IM_PF3W7_TF2Z076EN-C.pdf
Operation manuals	OM_PF3W7_OMM0005EN-R.pdf

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