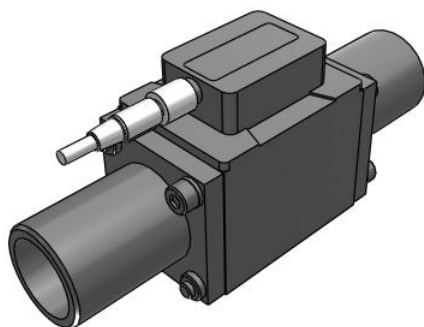




PF3W5-U, Digital Flow Switch for PVC Piping, Remote sensor unit PF3W511-U25-1

Datasheet

General series information

- Digital Flow Switch for PVC Piping
- Compact size.
- Rotary display.
- Display visibility improved.
- Built-in temperature sensor.
- IP65, RoHS Compliant & CE Compliant.



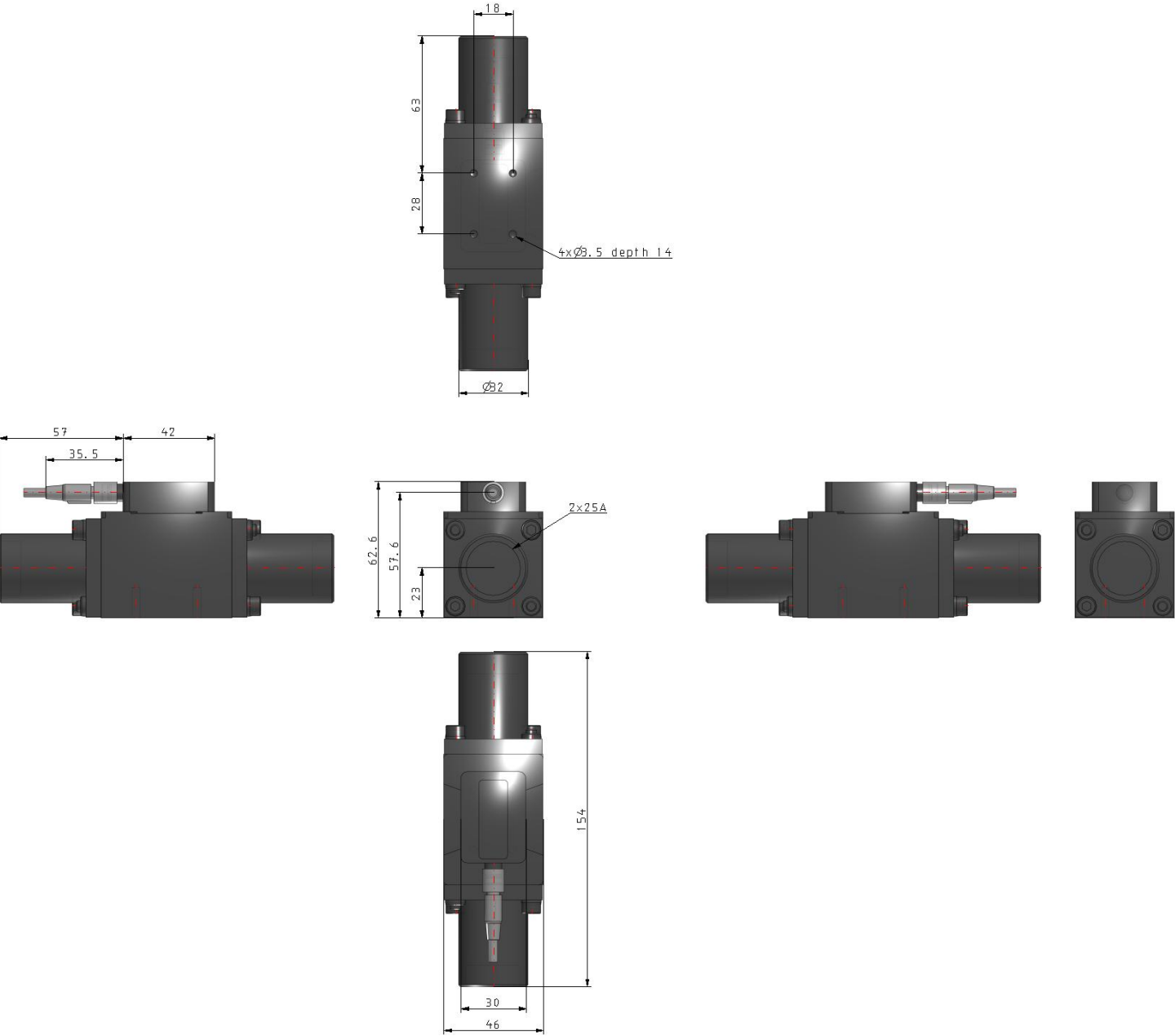
Flow meter

Standard specifications

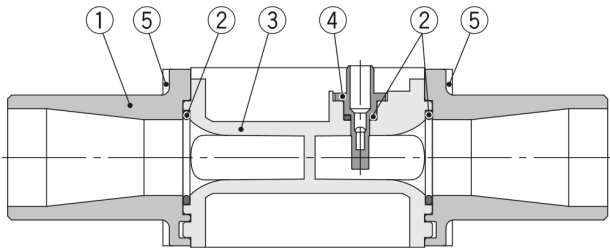
Rated Flow Range	11 (10 to 100 l/min)
PVC pipe O.D.	25A (ø32)
Output Specification	1 (OUT1: Analogue 1 to 5 V)
Lead Wire	With Lead Wire, With M8 Connector
Integrated display/Unit specification	Flow Rate: l/min, Temperature: °C
Bracket	None
Calibration Certificate	None
Proof pressure	1 MPa
General power supply	12 - 24 VDC ±10 %
Response time	1s
Operating humidity range	Operation, Storage: 35 to 85 % R.H. (No condensation)
Current consumption	30 mA or less
Material	PPS, FKM, CPVC, Non-grease
Enclosure	IP65
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
Analog voltage output	1 to 5 V Output impedance: 1 k Ω
Operating temperature range	0 to 50 °C (No freezing or condensation)
Pressure range	0 - 1 MPa
Accuracy	± 3 % F.S.
Indicator light	For power supply status, flow rate indicator (Blinking speed changes in response to flow rate.), and other error indicator
Withstand voltage	1000 VAC for 1 minute between terminals and housing
Insulation resistance	50 M Ω 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
Fluid temperature	0 to 70 °C (No freezing or condensation)
Pressure loss (without flow adjustment valve)	45 kPa or less at the maximum flow
Analogue output response time	1s
Weight	0.355 Kg

Dimensions



Constructions



Component Parts

No.	Description	Material	Note
1	PVC pipe	CPVC	
2	Seal	FKM	
3	Body	PPS	
4	Sensor	PPS	

Replacement Parts

No.	Description	Part no.	Qty.
1	PVC pipe (25A)	ZS-40-U25	1
	PVC pipe (30A)	ZS-40-U30	1
5	25A retaining plate (With two M5 x 80 hexagonal socket head cap screws)	ZS-40-U25-A	1
	30A retaining plate (With two M5 x 65 hexagonal socket head cap screws)	ZS-40-U30-A	1

* Replacing the PVC pipe may cause accuracy to fluctuate by 1 to 2 %.

Additional information

Catalogue	PF3W-Dd_EU.pdf
Declaration of conformity	newDoC_PF3W_TF1Y123EN.pdf DoC_PF3Wx_TFG0006.pdf newDoC_PF3W_TF1V119EN-A.pdf
Installation manuals	IM_PF3W5_TF2Z082EN-A.pdf
Operation manuals	OM_PF3W5_OMN0010EN-L.pdf