

Specifications

Flow accuracy	±5 % of F.S.
Output accuracy	±5 % of F.S.
Pressure limit	0.8 MPa(G)
Fluid temperature limit	60 °C
Operating temperatures	0 – 50 °C (Non condensing)
Output signals	4 – 20 mA Load resistance: $\leq 400 \Omega$ 1 – 5 VDC Load resistance: $\geq 50 \text{ k}\Omega$ 1 – 10 VDC Load resistance: $\geq 50 \text{ k}\Omega$
Output resolution	Approx.152
Power source ※	12 – 24 VDC ±10 %, max. 90 mA
Cable length	2 m

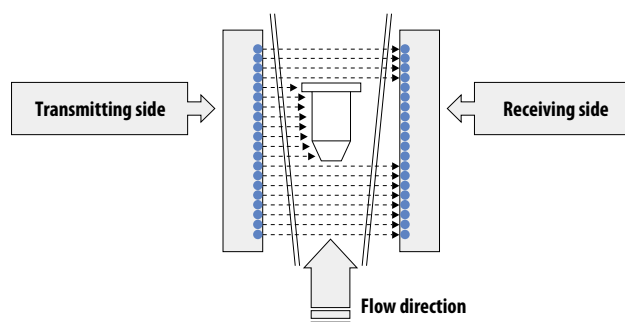
※ Power source for analog output signal of 1 - 10 VDC is 24 VDC ±10 %, max. 90 mA.

Cable specifications

Function	Wire color	Wire gauge
+12 - 24 VDC	Red	AWG 24
0 VDC	White	
Analog Output	Yellow	
Outer sheath shield	Green	

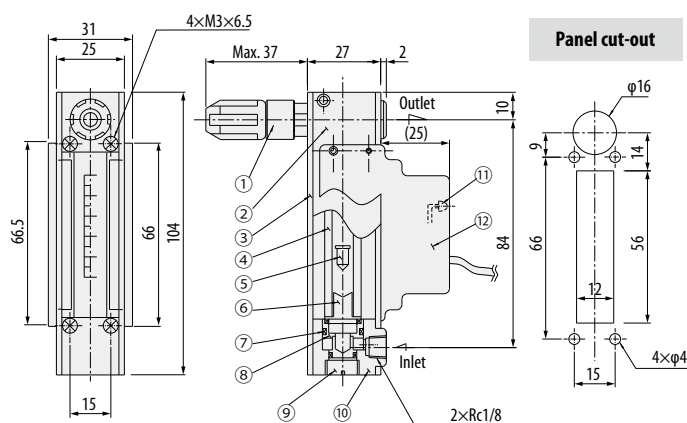
Measurement overview

There are 20 infrared IR emitters and 20 phototransistors on light-transmitting and light-receiving sides, respectively. Float placed between them blocks light, and phototransistors react to changes in shadow intensity, turning ON or OFF. Shadow created by float is read as a height difference, which is processed into analog output.

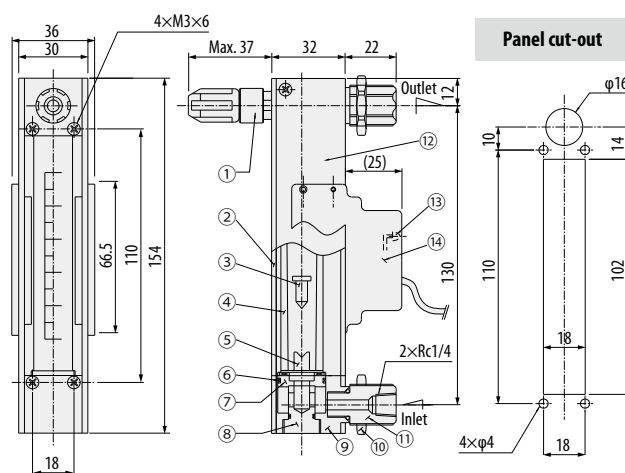


Outline drawing

DUO-PX20



DUO-PX25



※ Making a cut-out for φ16 is not required for product with no needle valve

Materials

No.	Part name	Material	Remarks
1	Needle valve	SS316	
2	Case	Al	Black anodized
3	Front plate	PMMA	Clear
4	Tapered tube	Heat-resistant glass	
5	Float	SS304	
6	Stopper	PTFE	
7	O-ring	NBR	
8	Retainer	BSBM	Plated
9	Cap	BSBM	Plated
10	Fitting	BSBM	Plated
11	Power LED	—	
12	Linear sensor	PBT, etc.	

Materials

No.	Part name	Material	Remarks
1	Needle valve	SS316	
2	Front plate	PMMA	Clear
3	Float	SS316	
4	Tapered tube	Heat-resistant glass	
5	Stopper	PTFE / SS316	
6	O-ring	NBR	
7	Retainer	SS316	
8	Cap	SS316	
9	Fitting	SS316	
10	Locknut	BSBM	Plated
11	Fitting	SS316	
12	Case	Al	
13	Power LED	—	
14	Linear sensor	PBT, etc.	