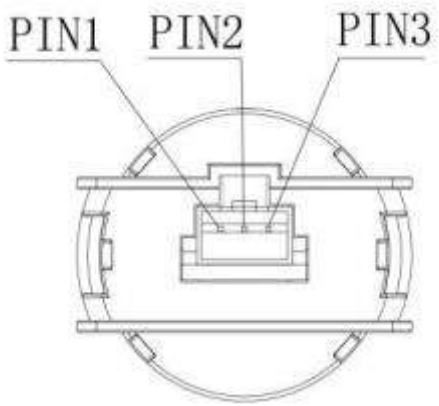
1. working principle

AZDM01 has a built-in photoelectric sensor. The light-emitting element generates an infrared light source. The light passes through the transparent plastic casing and the measuring tank. When the liquid with different turbidity levels flows through the measuring tank, the degree of blocking of the light is different, and the intensity of the transmitted light is different, and the photosensitive element will receive it. The change in light intensity is converted into an analog voltage signal, and the turbidity of the liquid is calculated by detecting the change in the voltage signal at the output terminal.

2. Technical indicators

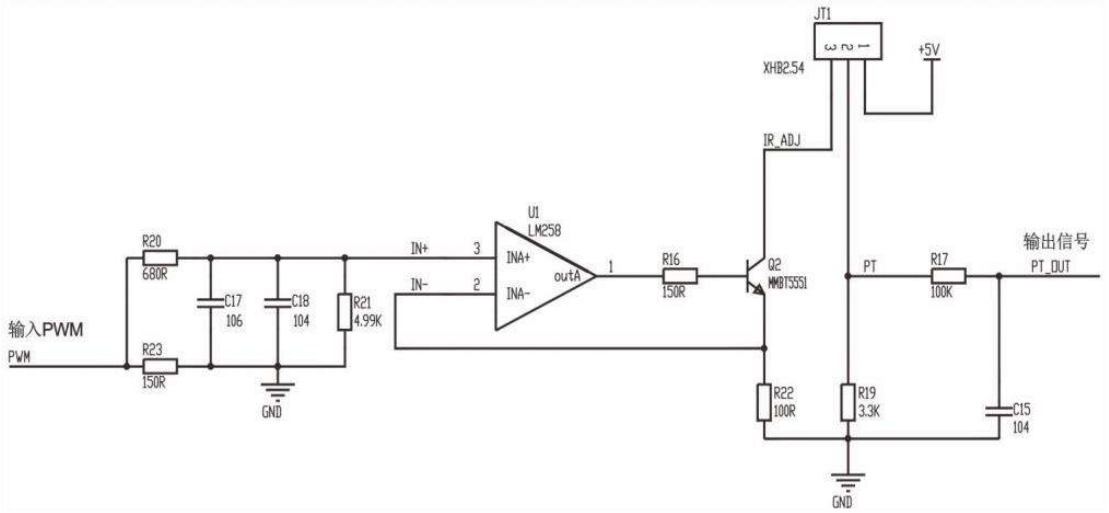
Product model AZDM01
Supply voltage DC:5.0V (4.8-5.5V)
Minimum supply current 20mA
Typical supply current 25mA
Maximum power supply current 50mA
Typical power 125mW
Sampling period >=100ms/ time
Output mode analog signal
Warm-up time >=100ms
Working temperature 4℃～85℃
Working humidity 0～95%RH
Service life >10 years (25℃)

AZDM01 pin assignment



PIN1 +5V
PIN2 PT
PIN3 IR_ADJ

Recommended drive circuit



	MIN	TYP	MAX
Clear water response		3.8V	
1000 ± 30NTU milk water response	0.8V		1.4V