

LPJ Photoelectric Pulse/Current Generator

General:

This Generator can change the angle displacement of the axes into electrical pulse signals (F) or current signals (I), and measure the total angle displacement value and angular velocity of the axis of rotation. Allowed to be used with a variety of flow meters; long-distance signals can be transmitted into the local display meter or computer for inspecting and control the flow.



Technical Datum

1. Rotation speed Range: 2 300r/min

2. Output

Standard Pulse:

Pulse Frequency: 1000Hz/r(A)

Accumulated Error: ± 1 Pulse

Waveform: Square Wave

Voltage:(Peak-to-Peak): $V_L < 1V, V_H = 12V_{P-P}$

Load Resistance: $\geq 10K \Omega$

Current:

Response Frequency: 0~10000Hz

Current: 4~20mA or 0~10mA

Response Time: < 1 Second

Output Form: See Picture 1

3. Ambient Condition:

Temperature: -30~+80°C(F) -60~+60°C(I)

Relative Humidity < 85%

4. Power Supply:

Voltage: +12VDC $\pm 1V$, 24VDC $\pm 1V$

Current: < 80mA

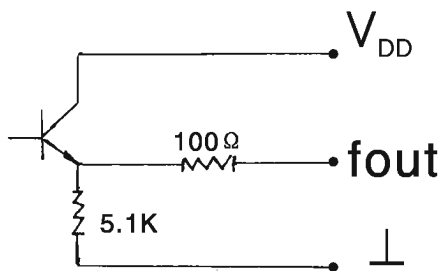
Noise: $\geq 10mA$ (Input Noise)

5. Anti-explosion:

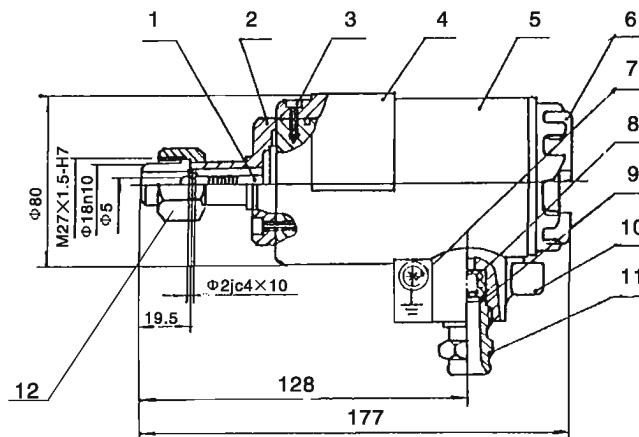
Grade: Exd II CT6 Certificate No.: GYB03478

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6. Outline Structure: See Picture 2



Picture 1



Picture 2

1. Photoelectric Parts 2. Flange 3. Bolt 4. Nameplate 5. Body 6. Cover
7. Grounding Bolt 8. Airproof Washer 9. Washer 10. Locking Parts
11. Wire End 12. Connection End

Principle And Wiring

The Generator is mainly made up with photoelectric coder. When the Axes rotates 360°, it will generate 1000 pulses signal (different meter size has different pulse coefficient). The pulse or current (convert from pulse signal) signal can be output to display meter or industry computer. The Max. transmit distance is 2000 meters. This generate can be matched with LSZ Double Rotator Flowmeter, LBYN Scrape Board Flowmeter to signal output.

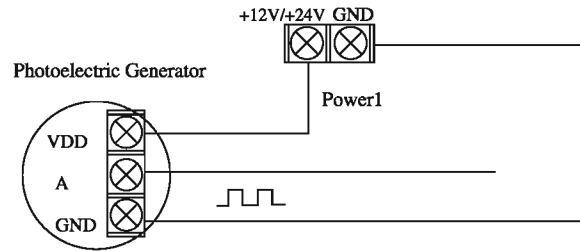
Wiring of Pulse Output (See Picture 3)

Power: $\pm 12\text{VDC} \pm 1\text{V}$
 $\pm 24\text{VDC} \pm 1\text{V}$

V_H : $>12\text{V}$

V_L : $<1\text{V}$

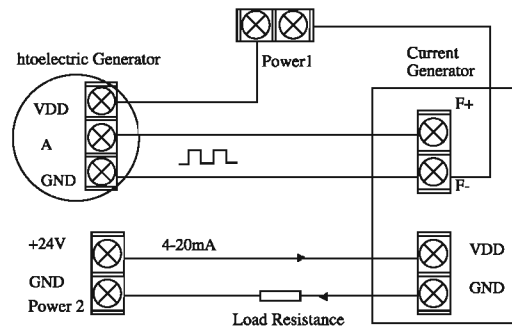
Wiring: See Picture 3



Picture:3

Wiring of Separate Type Current Output (See Picture 4)

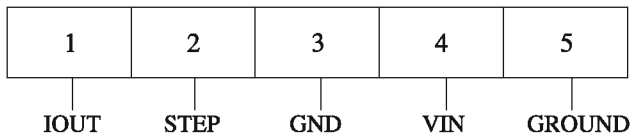
Power: $\pm 24\text{VDC} \pm 1\text{V}$
 (Current $<20\text{mA}$)



Picture:4

Wiring of Integral Type Current Output (See Picture 5)

POWER 1



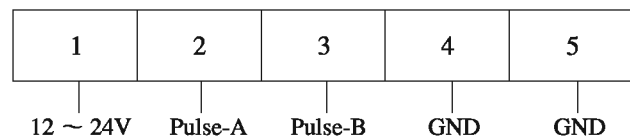
(Picture5)

Wire End explain (See Picture 6)

1. IOUT : 4 ~ 20mA current output end, or 1 ~ 5V voltage output end;
2. STEP : Synchronization pulse signal output end;
3. GND : Power cathode end;
4. VIN : 12 ~ 24V power anode end;
5. GROUND : Shell grounding end;

CON1

(Picture6)



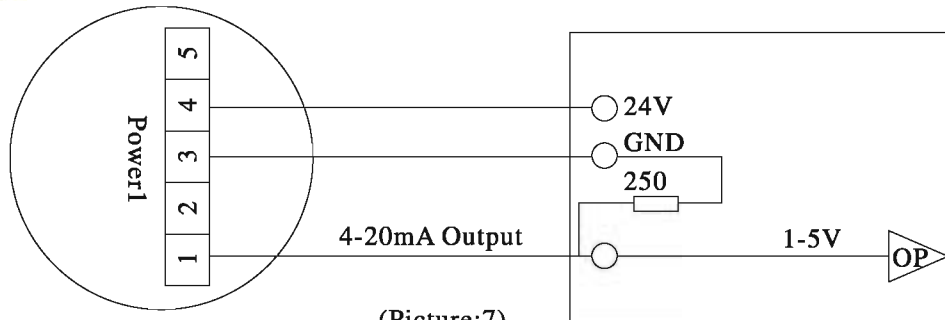
Wire End explain:

1. 12 ~ 24V: power anode end, Brown wire;
2. Pulse-A: Pulse-A input, Red wire;
3. Pulse-B: Pulse-B input, Orange wire;
4. GND : Power cathode end, Yellow wire;
5. GND : Green Yellow



YINUO

Wiring Drawing:

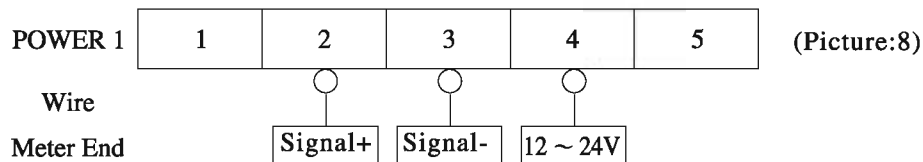


(Picture:7)

When the resistance is 500Ω, the output voltage will be 2-10V.

Performance

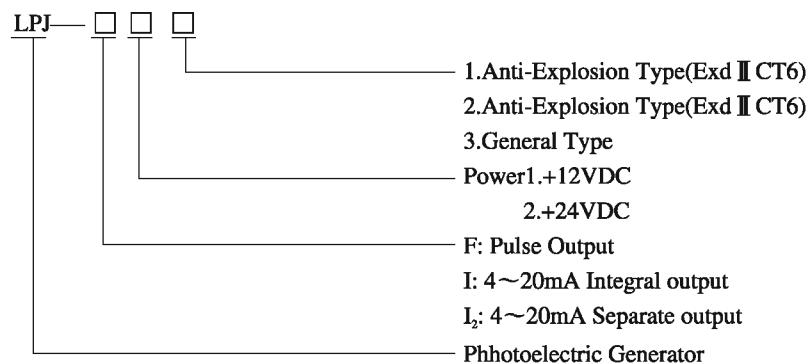
Type	Max.Frequency (Hz)	Lower Voltage	Higher Voltage
12V(3-wire System)	5K	<2V	>9V
24V(3-wire System)	5K	<2V	>18V



(Picture:8)

Note: We can custom made 2 ~ 10V, RS485 and RS232 signal output forms according to customer requirement.

Type Description



Important Notice

Please notice that the connection end is connected with the same axes of the flowmeter completely. And connect the wire according to the catalogue. If the signal has large attenuation when the transmission is too long, there should change a large diameter cable for the signal transmission.

Ordering Information

1. Power: _____
2. Output Signal type: Standard Pulse Output 4~20mA current Output
3. Special output frequency: 100Hz/r, 1000Hz/r.