

JUXTA F Series

General Specifications

Model : FQ0P

JUXTA

Analog / Pulse Transmitter

1. GENERAL

This signal conditioner converts DC voltage or current signals to pulse train signals. Output signals include open collector or contactless AC switch.

2. SPECIFICATIONS

| IO Specifications | |
|--|--|
| Input signal | DC voltage or current signals |
| Input resistance | 1 M Ω for voltage input. 100 Ω - 1k Ω for current input |
| Output signal | 0~F100%Hz (F100 is 100% output frequency) (0.001Hz \leq F100 \leq 4000Hz) |
| Zero point adjustment range | \pm 1% of span |
| Span adjustment range | \pm 5% of span |
| Output format | Open collector |
| Output pulse width | Duty 50 \pm 10% |
| Maximum permissible load | Open collector 30V, 200mA DC |
| Standard performance | |
| Precision rating | \pm 0.1% of span |
| Response speed | 150ms (100Hz span min) 1.5 sec (100Hz span max) 63% response (10~90%) |
| Insulation resistance | 100M Ω min (at 500V DC) between input~output, input~power supply and output~power supply |
| Voltage withstand | 1500V AC/minute between output~input, output~power supply 500V AC/minute between input~power supply |
| Ambient temperature and humidity | Normal operating condition: 0~50 $^{\circ}$ C, 5~90% RH Operating limit: -10~60 $^{\circ}$ C, 5~95% RH Storage condition: -40~70 $^{\circ}$ C, 5~95% RH (no condensation) |
| Power supply voltage | 24V DC \pm 10% (ripple : 10% P-P max) |
| Effect of power supply voltage fluctuation | \pm 0.1% max of span per 24V DC \pm 10% fluctuation |
| Effect of change in ambient temperature | \pm 0.2% max of span per 10 $^{\circ}$ C change in temperature |
| Current dissipation | 24V DC 65mA |
| Mountings and dimensions | |
| Material | Case: ABS plastic |
| Boards | Both sides glass-epoxy |
| Mounting methods | Rack, wall, or DIN rail |
| Connection method | M4-screw terminals |
| External dimensions | 72 x 24 x 127 mm (h x w x d) |
| Weight | 130g |
| Accessories | |
| Tag number label : x 1 | |
| Mounting blocks: x2 | M4 mounting screws: x2 |

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TYPE NO. _____

INPUT SIGNAL _____

A: 4~20mA DC

B: 2~10mA DC

C: 1~5mA DC

Z: (Custom) current signal

(where 100% is 50mA max and zero elevation is 25% max span)

6: 1~5V DC

OUTPUT SIGNAL _____

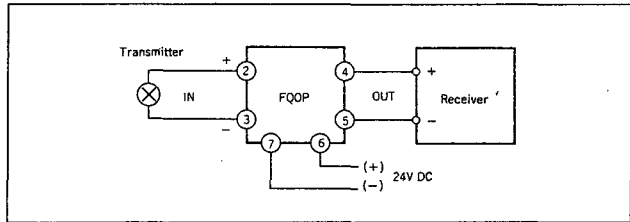
1: Open collector

3: Contactless AC switch

POWER SUPPLY

24V DC±10%

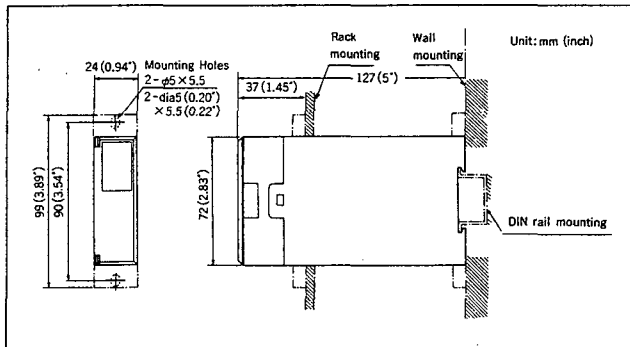
WIRING DIAGRAM



OUTPUT RESISTANCE AND PERMISSIBLE LOAD RESISTANCE

| Output Pulse Width | |
|--------------------|-------|
| Duty: -50±10% | |
| Pulse width fixed | 100µs |
| | 500µs |
| | 1ms |
| | 5ms |
| | 10ms |
| | 50ms |
| | 100ms |
| 500ms | |
| ±20% | |

EXTERNAL DIMENSION



Subject to change without notice for grade up quality and performance