

ORDERING INFORMATION

Model : B3FP

PLEASE FILL IN THIS SECTION



| |
|---------|
| Model |
| Company |
| Name |
| P/O No. |

FACTORY USE ONLY



| | |
|-----------|---------------|
| Job No. | Inspected by: |
| Ser No. — | |
| Sales | Inspected by: |
| | |

| ITEM | SET VALUE | DEFAULT | COMMENTS |
|------|-----------|---------|----------|
|------|-----------|---------|----------|

PULSE INPUT SETTING Adjusted with front SW and POT.

Select an input type. Fill in blank sections or mark ☐ with ☒ if necessary.

☐ OPEN COLLECTOR

| | | | |
|---------------------------------|--|---------|--|
| 0% INPUT FREQ. f _z | Hz | 0 Hz | Specify within 0 Hz – [f _s /2] Hz. |
| 100% INPUT FREQ. f _s | Hz | 1000 Hz | Specify within 10 mHz – 100 kHz. |
| INPUT COUPLING | <input type="checkbox"/> DC <input type="checkbox"/> AC | DC | AC coupling must be selected when the input offset is too great to accurately detect the input pulses. |
| FILTER | <input type="checkbox"/> With <input type="checkbox"/> Without | Without | With: Time constant 1 millisecond |
| DETECTING LEVEL | <input type="checkbox"/> Zero <input type="checkbox"/> Low <input type="checkbox"/> Middle <input type="checkbox"/> High | High | See Table 1. |

☐ VOLTAGE PULSE (Max. voltage across the input terminals is limited to 30V for CE conformance.)

| | | | |
|---------------------------------|--|---------|--|
| 0% INPUT FREQ. f _z | Hz | 0 Hz | Specify within 0 Hz – [f _s /2] Hz. |
| 100% INPUT FREQ. f _s | Hz | 1000 Hz | Specify within 10 mHz – 100 kHz. |
| PULSE AMPLITUDE | V p-p | 5V p-p | Specify within 0.1V p-p – 200V p-p. |
| DC OFFSET | V | 2.5V | Selectable within the maximum voltage for respective input amplitude setting. |
| INPUT COUPLING | <input type="checkbox"/> DC <input type="checkbox"/> AC | DC | AC coupling must be selected when the input offset is too great to accurately detect the input pulses. |
| FILTER | <input type="checkbox"/> With <input type="checkbox"/> Without | Without | With: Time constant 1 millisecond |
| DETECTING LEVEL | <input type="checkbox"/> Zero <input type="checkbox"/> Low <input type="checkbox"/> Middle <input type="checkbox"/> High | High | See Table 1. |

☐ 2-WIRE CURRENT PULSE

| | | | |
|---------------------------------|--|---------|--|
| 0% INPUT FREQ. f _z | Hz | 0 Hz | Specify within 0 Hz – [f _s /2] Hz. |
| 100% INPUT FREQ. f _s | Hz | 1000 Hz | Specify within 10 mHz – 100 kHz. |
| ON CURRENT | mA | 14mA | Detects as “High” at ≥ 14mA (incorporated receiving resistor 200 Ω) |
| OFF CURRENT | mA | 6mA | Detects as “Low” at ≤ 6mA (incorporated receiving resistor 200 Ω) |
| INPUT COUPLING | <input type="checkbox"/> DC <input type="checkbox"/> AC | DC | AC coupling must be selected when the input offset is too great to accurately detect the input pulses. |
| FILTER | <input type="checkbox"/> With <input type="checkbox"/> Without | Without | With: Time constant 1 millisecond |
| DETECTING LEVEL | <input type="checkbox"/> Zero <input type="checkbox"/> Low <input type="checkbox"/> Middle <input type="checkbox"/> High | High | See Table 1. |

■ Table 1: DETECTING LEVEL v.s. PULSE AMPLITUDE

| DETECTING LEVEL | 0.1 – 2V p-p | 2 – 10V p-p | 10 – 200V p-p | DEADBAND | |
|-----------------|--------------|-------------|---------------|-------------------------|----------|
| Zero-Cross | 0V | 0V | 0V | ±15% of Amplitude | ≥ ±45mV* |
| Low Level | 45mV | 60mV | 300mV | | ≥ ±40mV* |
| Middle Level | 200mV | 400mV | 2V | | ≥ ±80mV* |
| High Level | 1V | 2V | 10V | ±40% of Detecting Level | |

*Minimum deadband required for the amplitude 0.1 – 2 Vp-p.

Certain detecting levels may not be usable according to the selected input pulse amplitude.

[Example] Input type: Voltage pulse

Amplitude: 10V

Offset: 10V

Coupling: DC

The lowest voltage matching above conditions equals 5V, which cannot be selected with ‘Zero-Cross,’ ‘Low Level,’ or ‘Middle Level.’