Yokogawa F3XH04-3N

Yokogawa F3XH04-3N Pulse Input Module, 24VDC, High-Speed – 4 Channels
The F3XH04 is a high-speed input module which
incorporates the pulse-capture features of the FA-M3.
- The pulse-capture features facilitate detection of
pulse inputs with shorter on-time than the scan
period, which allows the F3XH04 to carry out
photo-micro switch input for high-speed sensing.
- The interrupt mechanism ensures reliable interrupt
processing using a short on-time pulse input.
- The minimum pulse width is as short as 50 µs.
- The four-independent input system permits
connection from different signal systems.
- The terminal block is provided with terminals for
shielded cables
Input type: DC voltage
Number of inputs: 4
Common system: 4 independent inputs
Isolation method: Photocoupler isolation
Rated input voltage: 24 V DC
Operating voltage range: 20.4 - 26.4 V DC
Rated input current: 11.2 mA/point (24 V DC)
Input impedance: 2.1 KΩ
Operating voltage/current — ON: 16.0 V DC min. 7.2 mA min.
Operating voltage/current — OFF: 6.0 V DC max. 2.5 mA max.
Input response time — OFF→ON: 50 µs max.
Input response time — ON→OFF: 50 µs max.
Minimum input pulse width: 50 µs
Pulse capture features *: Selection By DIP switches.
Interrupt features *: Selection By DIP switches. Set for each point through FA-M3 Programming Tool WideField3
Input hold time: The input signal is held for 512 µs after detection of an off-to-on transition.
Current consumption: 30 mA (5 V DC)
External connection: 10-point terminal block, M3.5 screw
Weight: 130 g
External connection method (terminal block type): Applicable conductor size 0.33-0.82 mm2; Wire connection method: Solderless terminal; Crimping torque 0.8 N • m (8 kgf • cm, 6.9 lbf • in); Applicable solderless terminal: V1.25-M3 (Japan Solderless Terminal Mfg. Co., Ltd.), RAV1.25-3.5 (Nippon Tanshi Co., Ltd.)

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Operating environment: There is no restriction on the type of CPU modules that can be used with this module.

Model and suffix codes: F3XH04 -3N . . . . . — High-speed inputs with pulse-capture feature, 24 V DC, 4 points

Note *: The pulse-catch and interrupt features are not available at the same time.

Surrounding air temperature range: Operating: 0 to 55° C / Storage: -20° C to 75° C

Surrounding humidity range: Operating: 10 to 90% RH (non-condensing) / Storage: 10 to 90% RH (non-condensing)

Surrounding atmosphere: Must be free of corrosive gases, flammable gases or heavy dust.

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