Yokogawa F3NC32-0N

Yokogawa Positioning Module (With Pulse Output) F3NC32-0N
F3NC32-0N

* **No. of axes**: 2

* **Control method**: Open-loop control using position reference pulse output

* **Output pulse type**: RS-422A compliant differential line driver; 5 Mpps for servomotors, 1 Mpps for stepping motors; Pulse type selectable for each axis: CW/CCW pulse, travel/direction pulse, and phase A/phase B pulse

* **Counter No. of channels**: 2

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* **Counter input pulse type**: Incremental encoder (phase A/B), absolute encoder; 5 Mpps input pulse rate (after 4x multiplication)

* **External contact input**: 6 inputs per axis (origin, forward limit, reverse limit, driver alarm input, external trigger, general-purpose input); emergency stop

* **External contact output**: 3 outputs per axis (one deviation pulse clear signal and two general-purpose outputs), and 1 SEN signal per axis

* **Units of measurement**: mm, degrees, and pulses

* **Control modes**: Position control, speed control, position-control $\leftrightarrow$ speed-control switchover

* **Interpolation modes**: 2-axis linear interpolation; 2-axis circular interpolation

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* **Operation modes**: Pattern operation and direct operation

* **Pattern operation**: PTP movement, CP normal movement, CP pass-by movement, and CP pass-through movement; No. of action pattern records: 2000 max. (500 actions x 4 patterns); No. of position data records: 2000 max per axis

* **Position reference**: Absolute/incremental position reference (-2,147,483,648 to 2,147,483,647 pulses)

* **Speed reference**: 1 to 5,000,000 pps

* **ACC/DCC curve**: Automatic trapezoidal acceleration/deceleration; Automatic S-shape acceleration/deceleration

* **ACC/DCC time**: 0 to 32,767 ms (configurable independently for acceleration and deceleration)

* **Other positioning features**: Change in target position during movement; Change in specified speed during movement

* **Origin search**: Two types of automatic origin search; Manual origin search (any combination of external contact inputs may be used)

* **Manual operation**: Jog operation and manual pulse generator mode

* **Other functions**: Electronic gear, teaching, current position setup, M code output, override, software limit switch, counter coincidence or zone coincidence detection

* **Data backup**: Flash ROM (100,000 times rewritable)

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