

FX5-16EX/ES Mitsubishi 24VDC 16-Point PLC Input Module Datasheet



Brand: Mitsubishi

SKU: [1045652039275](#)

Category: PLC I/O Modules

Price: **\$305.71**

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Product Description

Mitsubishi FX5-16EX/ES is a 16-point digital input expansion block measuring 40 mm x 90 mm x 83 mm, operating at a nominal 24 VDC with a 4.0 mA input signal current. The hardware features a sink/source selectable input configuration with a 5.6 k Ω input impedance and utilizes a photo-coupler insulation circuit for signal isolation. Physical connections are established via an M3 screw terminal block, while the internal circuitry draws 100 mA at 24 VDC and 85 mA at 5 VDC from the host PLC. The module delivers a rapid input response time of 50 μ s or less for ON signals and 150 μ s or less for OFF signals, housed in an IP20-rated enclosure weighing 0.2 kg.

FX5-16EX/ES Specifications

Model Number: FX5-16EX/ES

Brand: Mitsubishi Electric

Product Series: MELSEC iQ-F Series

Product Type: Digital Input Expansion Block

Number of Input Points: 16 points

Input Voltage: 24 VDC (+20 %, -15 %)

Input Signal Current: 4.0 mA / 24 VDC

Input Type: Sink / Source (NPN / PNP open collector transistor)

Input Impedance: 5.6 k Ω

Input Sensitivity Current (ON): 3.0 mA or more

Input Sensitivity Current (OFF): 1.5 mA or less

Input Response Time (ON): 50 μ s or less

Input Response Time (OFF): 150 μ s or less

Input Circuit Insulation: Photo-coupler insulation

Input Operation Indication: LED (lit when input is ON)

Connection Type: Screw terminal block (M3 screws)

Internal Current Consumption (5 VDC): 85 mA

Internal Current Consumption (24 VDC): 100 mA

Dimensions (W x H x D): 40 mm x 90 mm x 83 mm

Weight: 0.2 kg

Operating Temperature: 0 °C to 55 °C

Ingress Protection: IP20

Mounting Support: DIN Rail / Panel Mount

Approvals & Certifications: CE, UL/cUL, UKCA, ABS, BV, DNV GL, KR, LR, NK, RINA, RoHS Compliant

FX5-16EX/ES Applications

Primary applications include integration into high-speed packaging machine sequencing panels, automotive body-in-white welding cell controllers, and conveyor routing systems. Deployed within batch process control cabinets in chemical plants, HVAC building automation networks, and CNC spindle cooling management systems to expand digital sensor monitoring capabilities.

Supplemental Images

