

Schneider Electric 140DDI15310

With the Modicon Quantum series, the part number 140DDI15310 is a discrete input module designed to facilitate substantial data acquisition capabilities. It supports up to 32 inputs and is structured into four distinct channel groups, making it suitable for complex control tasks.

Technical specifications for 140DDI15310

Manufacturer Schneider Electric

Series Modicon Quantum

Part Number 140DDI15310

Product Discrete Input Module

Number of Inputs 32

Group of Channels 4

Logic Input Negative

Input Voltage 5V

Voltage Type DC

Voltage Limits 4.5 to 5.5 V

Current Rating 4 mA

Addressing Requirements 2 input words

Input Impedance 7500 Ohm

Max. Leakage Current 200 mA

Absolute Max Voltage 15 V

Response Time $\leq 250 \mu\text{s}$ from state 0 to state 1;

Protection Type Input Protection

Power Dissipation 5W

The Schneider Electric 140DDI15310 is a robust discrete input module within the Modicon Quantum series. This unit is equipped to handle a total of 32 input channels, organized into four groups, allowing it to effectively manage numerous discrete signals from various sensors or devices. Operating with a logic input type that is negative, the module requires a nominal input voltage of 5V DC, with specifications allowing a voltage range of 4.5 to 5.5 volts.

It is capable of supporting a current rating of 4 mA, making it suitable for several applications in automation and control systems. The addressing requirements for this module consist of two input words, facilitating easy integration into larger control architectures. The input impedance is measured at 7500 Ohms, and care is also taken to ensure leakage currents do not exceed 200 mA, safeguarding the system's operational integrity. For further protection, the absolute maximum voltage should not surpass 15 volts.

Response times are optimized for efficiency, with transitions from state 0 to state 1 achieved within 250 microseconds, and from state 1 back to state 0 within 500 microseconds, contributing to the module's reliability in dynamic applications. Leveraging an input protection feature, the

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140DDI15310 aids in ensuring system safety during operation. The power dissipation for this module is rated at 5 watts, reinforcing its design for stable performance under continuous use.



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