

Schneider Series Service Manual

140ERT85410

1. Description

The 140ERT85410 is a multifunction input module from Schneider Electric’s Modicon Quantum series. This device features two groups, each containing 16 process inputs and includes a total of 40 terminals for connectivity. It provides optocoupler isolation to effectively separate the two channel groups, thus enhancing performance reliability.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type Multifunction Input Module
Product	Line Modicon Quantum
Part	Number 140ERT85410
Weight	0.94 lbs (0.43 kg)
Number	of Channel Groups 2 groups of 16 process inputs
Number	of Terminals 40 terminals
Electrical	Connection Type Screw-type terminals
Isolation	Type Optocoupler isolation between channel groups
Number	of Inputs 1 discrete input for clock signal input and 32 discrete inputs for process input
Process	Input Power Consumption Less than 7.5 Watts
Process	Input Cable Type Shielded and unshielded cables
Ambient	Operating Temperature 0 to 60°C (in a non-condensing environment)
Storage	Temperature -40 to 85°C (in a non-condensing environment)
Operating	Altitude Up to 16,404.2 feet (5,000 meters) above sea level
Cable	Length 400 to 600 meters (1,312.34 to 1,968.5 feet)
Local	Signalling 35 LED indicators
Humidity	Tolerance 0 to 95% relative humidity (without condensation)

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Technical specifications for 140ERT85410

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Local Signalling 35 LED indicators

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Description

The Modicon Quantum 140ERT85410 multifunction input module is engineered for diverse industrial applications. It features 40 screw-type terminals for dependable electrical connections. The product is configured to manage two groups, where each group accommodates 16 process inputs effectively. For enhanced signal integrity, an optocoupler isolation method separates the channel groups.

The module is designed to receive one discrete clock signal input alongside 32 discrete inputs for process applications. It operates efficiently with a power consumption not exceeding 7.5 Watts. Users can utilize both shielded and unshielded cables, with operational cable lengths ranging from 400 to 600 meters (1,312.34 to 1,968.5 feet).

Local indication is facilitated through a robust array of 35 LED indicators, providing clear status signals. The module maintains reliable performance in a non-condensing environment, supporting ambient temperatures between 0 and 60 degrees Celsius while storage conditions can safely go as low as -40 and as high as 85 degrees Celsius. With a tolerance for relative humidity levels from 0 to 95% without condensation, this module is prepared for varied operating conditions. Additionally, it is capable of performing at significant altitudes, specifically up to 5,000 meters above sea level.