

Schneider Series Service Manual

170LNT71000

1. Description

The 170LNT71000 from Schneider Electric is a communication adapter from the Modicon Momentum series. This unit operates at transmission rates of 125, 250, and 500 kilobits per second, effectively supporting various network configurations.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type Communication Adapter
Product	Line Modicon Momentum
Part	Number 170LNT71000
UPC	785901328544
Transmission	Rate 125, 250, and 500 kilobits per second
Ambient	Operating Temperature 0 to 60°C (in a non-condensing environment)
Network	Topology Multi-drop trunk
Type	of Control Parameter CRC-16
Access	Method Carrier Sense Multiple Access/Collision Avoidance (CSMA/CA), Master/Slave, and peer-to-peer (P2P)
Storage	Temperature -40 to 85°C (in a non-condensing environment)
Transmission	Cable Type Twisted pairs cable
Number	of Devices Per Segment 0 to 64 per segment
Maximum	Cable Distance Between Devices More than 1,640.4 feet (500 meters) based on the transmission rate
Communication	Protocol DeviceNet
Operating	Altitude Less than 16,404 feet (5,000 meters)
Electrical	Connection Type One 5-pin DeviceNet connector
Protection	Class IP20

3. Product Information

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Technical specifications for 170LNT71000

Manufacturer Schneider Electric

Product Type Communication Adapter

Product Line Modicon Momentum

Part Number 170LNT71000

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Maximum Cable Distance Between Devices More than 1,640.4 feet (500 meters) based on the transmission rate

Communication Protocol DeviceNet

Operating Altitude Less than 16,404 feet (5,000 meters)

Electrical Connection Type One 5-pin DeviceNet connector

Protection Class IP20

Description

Schneider Electric's 170LNT71000 communication adapter is integral to the Modicon Momentum series. This device is adept at achieving transmission speeds of 125, 250, and 500 kilobits per second. It operates within non-condensing environments while supporting ambient temperatures from 0 to 60°C and storage conditions from -40 to 85°C, making it suitable for diverse operational settings.

The device connects in a multi-drop trunk network topology, allowing seamless communication among 0 to 64 devices within one segment. Twisted pair cables serve as the transmission medium, enabling distances for inter-device connections that can surpass 1,640.4 feet (500 meters), dependent on the transmission rate in use. The device is compliant with DeviceNet communication protocols, ensuring reliable data exchange within automation systems.

Incorporating an electrical connection type featuring a single 5-pin DeviceNet connector, the 170LNT71000 efficiently interfaces with existing setups. It leverages Carrier Sense Multiple Access/Collision Avoidance (CSMA/CA) methods along with Master/Slave and peer-to-peer (P2P) access techniques for robust network interaction. Additionally, it is designed to operate effectively at altitudes below 16,404 feet (5,000 meters). Weighing just 0.15 pounds (0.07 kilograms), this communication adapter is designed for easy integration without added bulk. The unit's IP20 protection class ensures that it is safeguarded against potential environmental hazards.

Range of Product

Modicon Momentum automation platform

Product or Component Type

DeviceNet communication adaptor

Complementary

Communication Port Protocol

DeviceNet

Transmission support medium

Twisted pair

Transmission Rate

125/250/500 kbit/s

Topology

Multidrop trunk

Net Weight

0.15 lb(US) (0.07 kg)

Environment

IP Degree of Protection

IP20

Protective treatment

TC

Marking

CE

Ordering and shipping details

Category

18206-MOMENTUM PROCESSORS,I/O BASES,CONN.

Discount Schedule

PC31

GTIN
00785901328544
Returnability
No
Country of origin
FR