

Schneider Series Service Manual

170FNT11001

1. Description

The Schneider Electric 170FNT11001 is a communication module designed for FIPIO protocols. It supports a transmission rate of up to 1 Mbit/s and operates on a maintain value or fallback-to-zero fail state, enhancing reliability.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type FIPIO Communication Module
Product	Line Modicon
Part	Number 170FNT11001
EAN	3389110896527
Weight	0.25 lbs (0.11 kg)
Transmission	Rate 1 Mbit/s
Fail	State Maintain value, Fallback to zero
Protocol	FIPIO
Supply	From I/O base
Cable	Type Optical Fiber, Shielded Twisted Pairs
Devices	per Segment 0-31 (without repeater), 0-97 (with repeater)
Topology	Extension or Tap Off Cable
Cable	Length 1000-5000 m
Access	Method Producer/Consumer principle
Max	Cable Distance 5000 m
Marking	CE

3. Product Information

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Technical specifications for 170FNT11001

Manufacturer Schneider Electric

Product Type FIPIO Communication Module

Product Line Modicon

Part Number 170FNT11001

EAN 3389110896527

Weight 0.25 lbs (0.11 kg)

Transmission Rate 1 Mbit/s

Fail State Maintain value, Fallback to zero

Protocol FIPIO

Supply From I/O base

Cable Type Optical Fiber, Shielded Twisted Pairs

Devices per Segment 0-31 (without repeater), 0-97 (with repeater)

Topology Extension or Tap Off Cable

Cable Length 1000-5000 m

Access Method Producer/Consumer principle

Max Cable Distance 5000 m

Marking CE

Description

The 170FNT11001 communication module from Schneider Electric is a vital component in the Modicon series. It is classified as a FIPIO communication module, enabling effective data exchange in networked environments. This module operates at a transmission speed of 1 Mbit/s, making it suitable for various applications requiring reliable communication.

One of the key features of the 170FNT11001 is its fail state functionality; it can maintain its last known value or fall back to zero when necessary, ensuring system integrity during interruptions. The module operates on the FIPIO protocol and draws power from the connected I/O base, streamlining setup parameters for users.

The communication module is compatible with optical fiber and shielded twisted pair cables, offering flexibility in wiring options. This device is lightweight, weighing only 0.04 kg. Each segment can accommodate up to 31 devices without the need for a repeater; by adding a repeater, this number expands to 97 devices, thereby enhancing network scalability. The topology supports either extension or tap-off cable arrangements, making it adaptable to various installation layouts.

For cable lengths ranging from 1000 to 5000 meters, the module can effectively communicate over distances of up to 5000 meters. Data access follows a producer/consumer methodology, allowing efficient data sharing across connected devices. Additionally, the module is CE Marked, ensuring compliance with relevant regulatory standards.

Range of Product

Modicon Momentum automation platform

Product or Component Type

Fipio communication adaptor

Bus manager PLC

Premium

Method of access

Producer/consumer principle

Complementary

Communication Port Protocol

Fipio

Fail state

Maintain value

Forcing to state zero

Full scale value

Fallback to zero

Transmission support medium

Optical fibre 50/125

Twisted shielded pairs cable

Optical fibre 62.5/125

Transmission Rate

1 Mbit/s

Topology

Extension or tap off cable

Net Weight

0.24 lb(US) (0.11 kg)

Environment

Protective treatment

TC

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Marking
CE
Ordering and shipping details
Category
US1PC3118206
Discount Schedule
PC31
GTIN
3389110896527
Returnability
No
Packing Units
Unit Type of Package 1
PCE
Nbr. of units in pkg.
1
Package 1 Height
2.2 in (5.5 cm)
Package 1 Width
7.09 in (18.0 cm)
Package 1 Length
10.2 in (26.0 cm)
Package weight(Lbs)
6.5 oz (185.0 g)

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