

Schneider Series Service Manual

140NRP95400

1. Description

The Schneider Electric 140NRP95400 fiber optic repeater is engineered for effective signal transmission in network applications. With multiple ports, it utilizes multi-mode fiber optics and features LED indicators for operational status.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Line Modicon Quantum
Part	Number 140NRP95400
EAN	3595864115238
Weight	1.44 lbs (0.65 kg)
Name	Fiber Optic Repeater
Optic	Fiber Type Multi-mode
Bus	Current Requirement 700 mA
Power	Dissipation 5W
Inrush	Current 1A at 5VDC
Number	of Ports 2 fiber optic ports (connector type: ST) and 1 coaxial connector port
Indicators	LEDs
Wavelength	820 nm
Rise/Fall	Time 20 ns
Receiver	Sensitivity -30 dBm
Dynamic	Range 20 dB
Detected	Silence -36 dBm
Material	PC (polycarbonate)
Description	
Part	number 140NRP95400 from Schneider Electric features a fiber optic repeater tailored for optimal data transmission. This unit is built to operate using multi-mode fiber optics and requires a bus current of 700 mA. It dissipates around 5 watts during operation. The device can withstand an inrush current of 1 amp at 5VDC, ensuring durability under varying power conditions.

3. Product Information

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Technical specifications for 140NRP95400

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Designed with two fiber optic ports using ST connectors, it also includes a coaxial connector port, maximizing connectivity options for network integration. Operational performance is enhanced with LED indicators that convey the status of the device instantly.

The repeater operates at a wavelength of 820 nm with a rapid rise/fall time of 20 nanoseconds, which allows it to support fast data communications. Its receiver sensitivity is rated at -30 dBm, along with a dynamic range of 20 dB, ensuring that it can effectively manage signals across significant distances. Additionally, it identifies silence at -36 dBm, providing insights into the absence of data transmission.

Constructed from polycarbonate, the casing is durable, with dimensions of 40.34 mm in width, 250 mm in height, and 103.85 mm in depth. Weighing in at 0.554 kilograms, this fiber optic repeater is compact and suitable for various installation scenarios, reinforcing its place in robust communication systems.