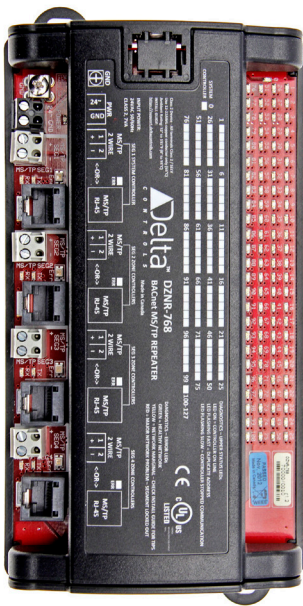# Accessories

DZNR-768: BACnet® MS/TP Repeater

Description

The Delta Controls DZNR-768 is an intelligent RS-485 BACnet MS/TP, 4-port network repeater. It has four removable terminals for 2-wire twisted pair connections, or four RJ45 connectors to accommodate the quick connect cabling used with the DZNT-VAV products. The DZNR-768 continuously monitors network traffic and displays status and communications errors on its 118 on-board LEDs.

Features

▶ Can be used with any BACnet MS/TP Network

▶ Divides a network into segments for easy troubleshooting

▶ Supports twisted pair and Delta Controls CAT-5 MS/TP wiring

▶ Uses autobaud detection to remove the need for manual configuration

▶ Displays online or offline status of each controller

▶ Built-in termination for each segment ensures proper network operation

▶ Displays status

▶ Identifies controllers with duplicate addresses

▶ Detects unreliable character transmissions

▶ Identifies network wiring faults

Specifications

Indicator LEDs
Individual controller status

Segment communications

Segment errors

Power

Baud rate

Capacity
64 controllers per segment

99 controllers per DZNR-768

Connectors
Removable screw-type terminal connectors

RJ45 connectors

Ground Lug

Wiring Class
Class 2

Application

The Delta Controls DZNR-768 divides a RS-485 network into four segments, allowing up to 64 controllers per segment, while improving signal quality on each segment. Built-in diagnostics monitor the status of each controller and detect communications errors on each segment.

Segment 1 typically connects to a System Controller, and the three other segments allow for distribution of the network controllers. The four segments allow for a total of 99 controllers per DZNR network.

The network cable length for each segment is 4000 feet (1200 meters) for twisted pair and 2000 feet (600 meters) using the CAT-5 MS/TP connections.

Delta CONTROLS™

Accessories

DZNR-768: Layout Diagram

- Ground Lug
- 24 VAC Power
- 2 Wire RS-485
- Segment 1 — Tx/Rx/Error LEDs
- Cat5 RS-485
- Segment 2
- Segment 3
- Segment 4
- System Controller Status - LED 0
- Device Status LED Address 1-99
- Device Address 100-127 Status LED
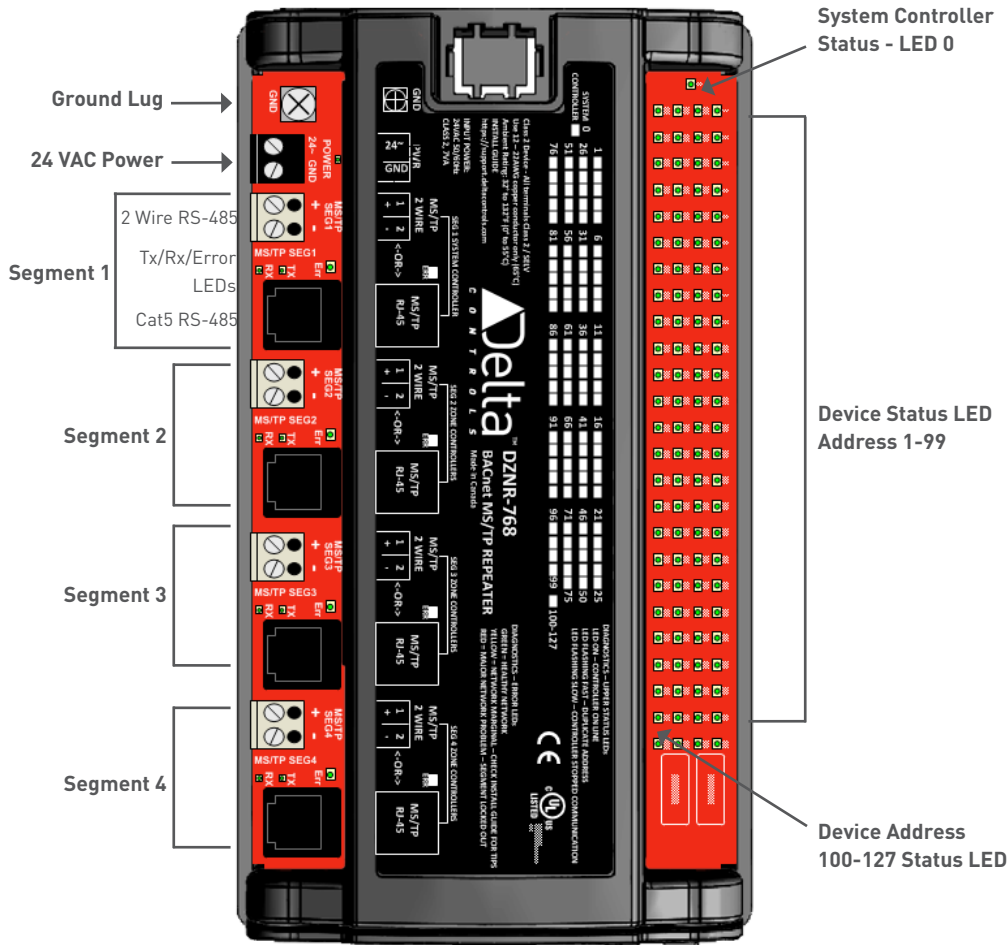
Specifications (Continued)

Power
24 VAC 50/60 Hz @ 7 VA

Communication Ports
4 RS-485 Ports
BACnet MS/TP up to 76800 bps

Ambient
32º to 131ºF (0º to 55ºC)
10 to 90% RH (non-condensing)

Dimensions
8⁹/₁₆ x 4¼ x 1¹⁵/₁₆ in.
(21.8 x 10.7 x 4.9 cm) with housing

Weight
0.41 lb. (190 g) with housing

Compliance
CE
FCC

Listings
UL 916 Listed
UL 864 Listed for UL 864 product numbers

BACnet is a registered trademark of the American Society of Heating, Refridgerating and Air Conditioning Engineers Inc.

Updated July 2015

Ordering
Order the DZNR-768 according to the following product number:

DZNR-768	RS-485 BACnet MS/TP, 4-port network repeater
DZNR-768-UL864-340	DZNR-768 with UL 864 listing

Accessories

ADP45-MSTP-EOL	End of Segment Loopback Adapter
ADP45-MSTP-Y	Segment Splitter
ADP45-MSTP-TB-Y	2-wire MS/TP Adapter
ADP45-MSTP-BYPASS	Device Bypass Adapter

Subject to change without notice.