

DUALCOM™ SERIES UNIVERSAL ALARM COMMUNICATOR

Compliance Listing Guide

BEFORE YOU BEGIN

This guide provides compliance information for the DualCom Series Universal Alarm Communicator. Read through the contents of this guide before starting the installation process. It describes the functions along with available installation options. Information contained in this guide allows you to learn the operation, functionality, and programming features of the communicator to meet specific applications.

The DualCom Series Universal Alarm Communicator provides a fully supervised alarm communication path for commercial fire control panels. This section applies to the following model:

- DualComNF Cellular Communicator with Network/LTE for Commercial Fire

PROGRAMMING REQUIREMENTS

Notice to users, installers, authorities that have jurisdiction, and other involved parties: This product incorporates field-programmable software. In order for the product to comply with the requirements of a certificated installation, certain programming features or options must be limited to specific values or not used at all as indicated below.

Program feature or option	Standard	Permitted?	Possible settings	Settings permitted
System Reports, RESTORAL	ANSI/UL 864	Y	NO, YES, DISARM	YES, DISARM
Communication, CHECKIN MINUTES	ANSI/UL 864	Y	3-240	3-238 (Dual Path) 3-58 (Single Path)
Communication, FAIL TIME MINUTES	ANSI/UL 864	Y	3-240	3-240 (Dual Path) 3-60 (Single Path)

COMMERCIAL FIRE INSTALLATION

CID Dialer Connection

Directly connect both tip and ring terminals from the control panel to the communicator. See Figure 1. This connection captures Contact ID messages from any fire panel that are based on the SIA communication standard DC-05-1999.09-DCS. Messages are then formatted into a Serial 3 message and sent to an SCS-1R Receiver or SCS-VR Receiver.

Communication Failure

The phone line voltage on the second tip and ring will drop when DualComNF is in a communication failure state. This triggers the host panel to annunciate a communication failure. When communications have restored on DualComNF, voltage will be restored on the second tip and ring terminal, allowing the host panel to see a restoral on the phone line.

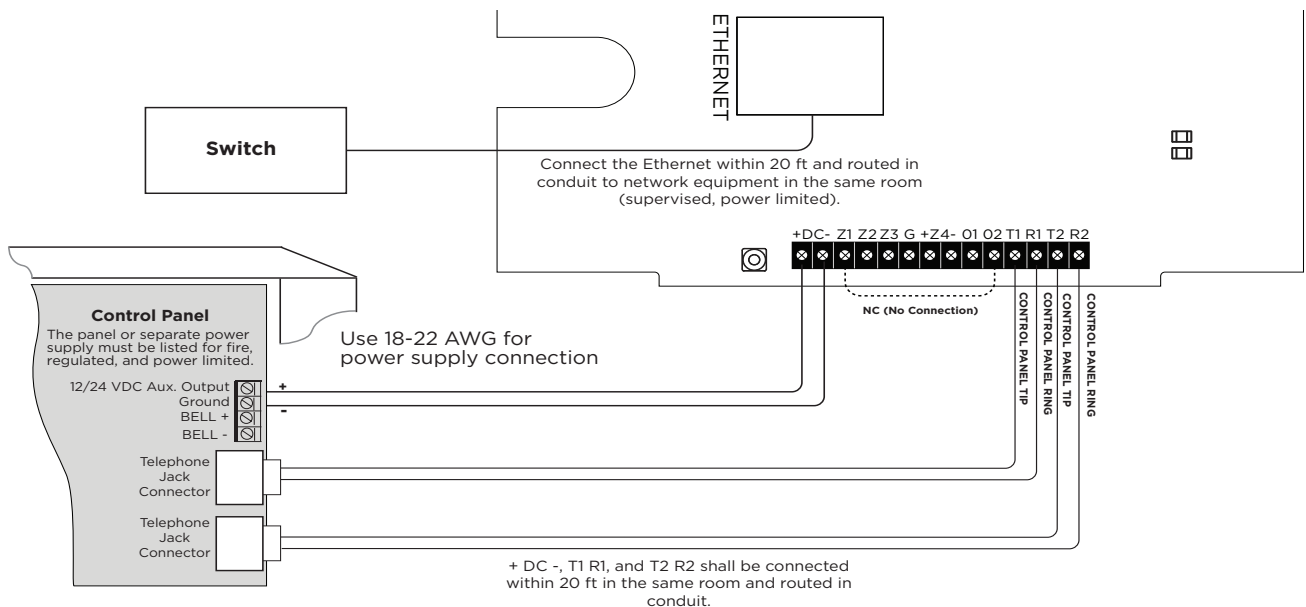


Figure 1: Wiring Diagram for Tip and Ring Connection

ANSI/UL 864

Fire Protective Signaling Systems using Internet/Intranet/Cell Networks

A Performance Based Technologies system as defined in UL 864 10th Edition may be configured as the following:

Network Primary and Cellular Backup Programming

Network Programming	Cellular Programming
Comm Type = NET	Comm Type = CELL
Checkin Min = 238	Checkin Min = 238
Fail Time Min = 240	Fail Time Min = 240

Cellular Primary with no Backup

Path 1 Programming	
Comm Type = CELL	Checkin Min = 58
Path Type = Primary	Fail Time Min = 60
Test Rpt = No	Checkin = Yes

Network Primary with no Backup

Path 1 Programming	
Comm Type = NET	Checkin Min = 58
Path Type = Primary	Fail Time Min = 60
Test Rpt = No	Checkin = Yes

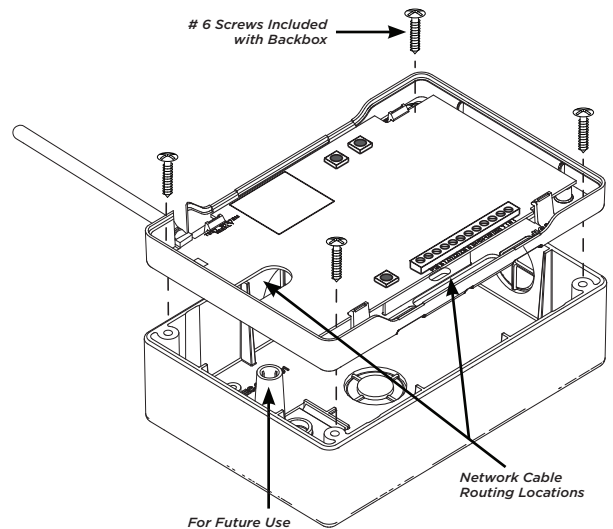


Figure 2: Model 685-R Backbox Installation

Model 685-R Backbox Installation

For Commercial Fire applications using DualComNF and the included red plastic Model 685-R backbox, mount the backbox to the wall with the 1" #6 screws included with the fire communicator. Mount the fire communicator to the backbox with the 1/2" #6 screws. See Figure 2. Locate the fire communicator within 20 feet of the control panel and route all wire in conduit.

Refer to the DualCom Series Programming and Installation Guide (LT-1859) for communication test procedure.

For Remote Station, route supervisory and trouble messages to a separate receiver programmed in Receiver 2. See Communication in LT-1859 for more information.

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Specifications

Primary Power	Nominal 12 - 24 VDC
Current Draw at 12 VDC	
Standby	75 mA
Alarm	95 mA Peak Cellular Communication
Current Draw at 24 VDC	
Standby	45 mA
Alarm	85 mA Peak Cellular Communication

Dimensions and Color

Housing Dimensions	5.5"W x 3.75"L x 1"H
Housing Color	Red

Certifications

Cellular

FCC Part 15: XMR201707BG96
IC: 10224A-201709BG96

Underwriters Laboratories (UL) Listed

ANSI/UL 864 Fire Protective Signaling Systems
(CID Capture)



Designed, engineered, and manufactured in Springfield, MO using U.S. and global components.
LT-1899 19164 1.01

INTRUSION • FIRE • ACCESS • NETWORKS

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