



Dataliner DL40 Plus Slave Message Displays

Overview

The Dataliner DL40 Plus Slave Displays directly replace Dataliner DL20 slave and DL10 slave message displays. This document describes:

- new catalog numbers
- enhancements
- panel cutout
- installation differences

New Catalog Numbers

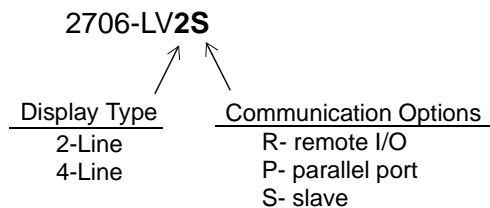
The DL40 Plus Slave is a fully compatible replacement for DL20 slave and DL10 message displays. Use the following table to convert an existing DL20 slave or DL10 to a compatible DL40 Plus slave display.

This DL10/DI20 Slave Catalog Number:	Converts to this DL40 Plus Slave:
2706-A11	2706-LV2S
2706-A21	2706-LV2S
2706-A41	2706-LV4S
2706-NX6	2706-LV2S
DL20 Display Configured for Slave Mode ⁽¹⁾ One or two line display Four line display	2706-LV2S 2706-LV4S

⁽¹⁾ Only DL20 displays configured for Slave Mode can be directly replaced with a DL40 Plus Slave. In other operating modes, DL20 displays may use features not present on the DL40 Plus Slave display.

Catalog Number Definition

The DL40 Plus catalog numbering system has 2 slave and 4 standard displays. Six catalog numbers replace catalog numbers for the entire DL40, DL20, and DL10 product lines.



Enhanced Character Sets

The DL40 slave display offers 3 character sets:

- English
- Cyrillic
- International (ISO 8859-1)

Benefits

New DL40 Plus slave displays offer these benefits:

- Power supply upgrade: IEC 1131-2 compliant design
- Integral fuse: common for 120 or 240 VAC installations
- Improved reliability with less components
- Increased panel mount stud length from 0.5 to 0.625 inches
- Panel depth reduction from 5.1 to 3.0 inches (4-Line DL10)
- Reduced weight
- Expanded baud rates up to 19,200 KB
- Annunciator relay with N.O. contact
- Four operating modes: Dataliner Slave Mode, PanelView Slave Mode, Terminal
- Mode (VT100 emulation), and Diagnostic Mode
- Simple DIP switch configuration - no programming required

Regulatory Enhancements

The DL40 Plus slave meets and is listed for the following environmental, safety, and European Union regulatory requirements:

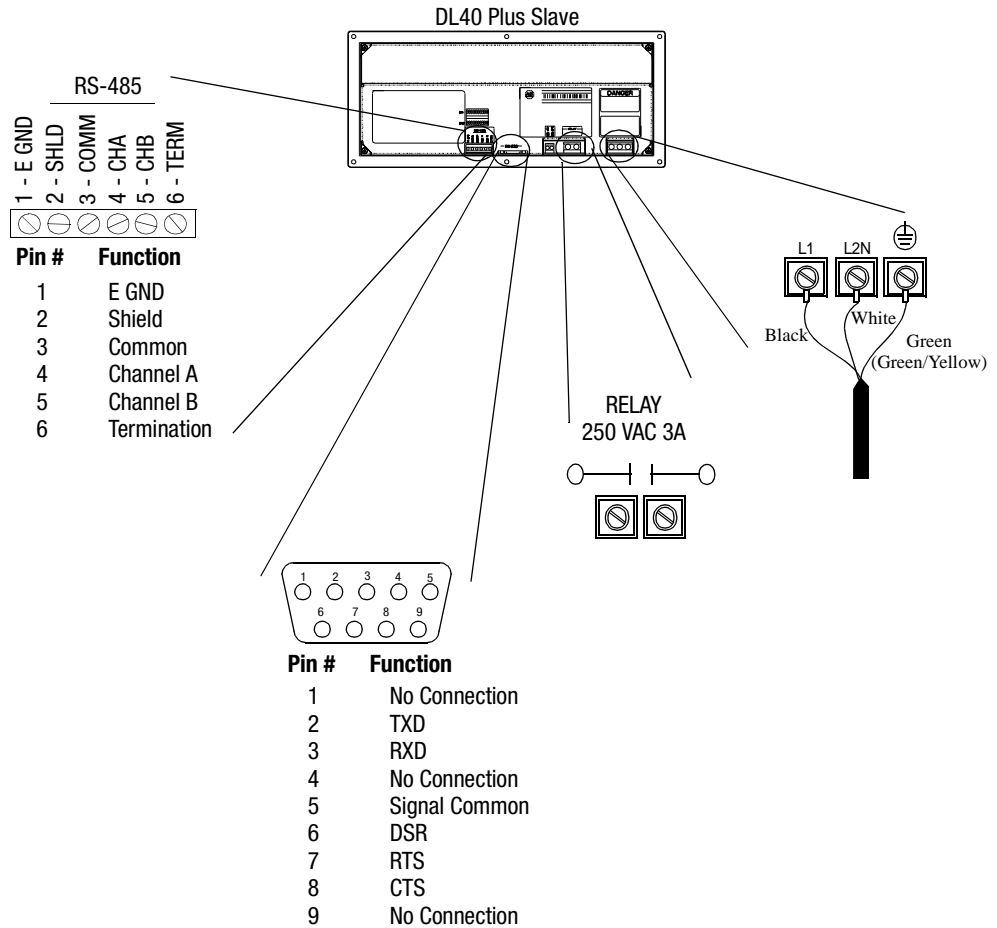
- European Union Directive Compliance - CE marked for EMC Directive and LVD Directives, IEC 1131-2 Equipment Class I.
- UL Listed for Class I, Division 2, Groups A, B, C, D Hazardous Locations
- UL Listed for Class I, Zone 2, Ex nAIIIC and AEx nAIIIC Hazardous Environments
- cUL Listed for Canadian Safety Standards

Panel Cutout

The DL40 Plus Slave displays fit into the same panel cutout as the previous DL40, DL20 and DL10 products allowing direct mechanical replacement for these products.

Installation

Installation of the DL40 Plus Slave is similar to other Dataliner displays Refer to the next page if you are replacing a DL10 or DL20 slave display..

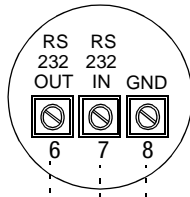
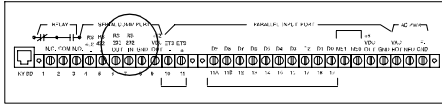


Converting Connections

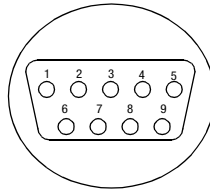
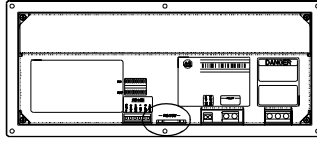
If you are replacing a DL10 or DL20 slave with the DL40 Plus, you will need to convert the communication connections as shown below

RS-232 Connections A female 9-pin D shell connector is required for connection to the DL40 Plus RS-232 port.

DL20 Equivalent Connections

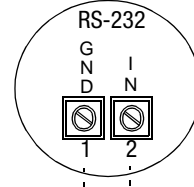
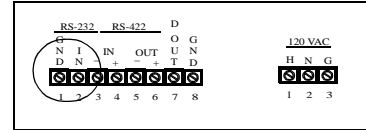


DL40 Plus



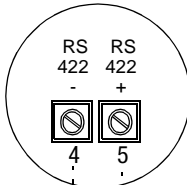
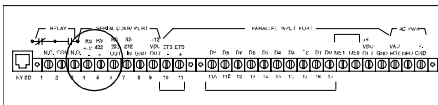
Pin #	Function
1	No Connection
2	TXD
3	RXD
4	No Connection
5	Signal Common
6	DSR
7	RTS
8	CTS

DL10 Equivalent Connections

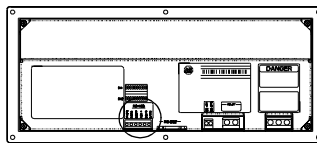


RS-485 Connections

DL20 Equivalent Connections

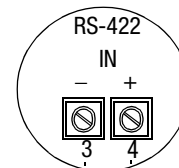
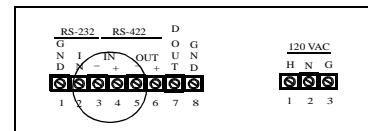


DL40 Plus



Pin #	Function
1	E GND
2	Shield
3	Common
4	Channel A
5	Channel B
6	Termination

DL10 Equivalent Connections



Rockwell Automation

Bringing Together Leading Brands in Industrial Automation

PN 41061-094-01(B)

Copyright 1998 of Rockwell International Corporation. Printed in the U.S.A.