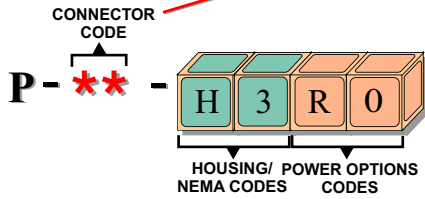


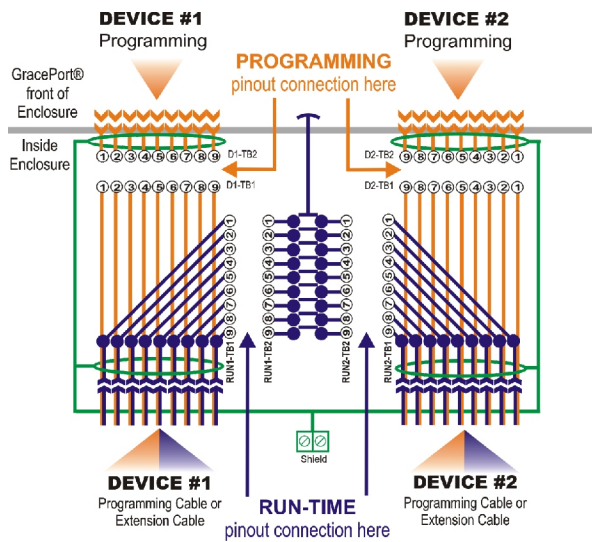


GracePort® Data Switch Crossover (DSX) Connector Code Data Switch



Designed to offer a convenient "through-the-door" programming interface for "Serial-to-Serial" device systems such as a PLC/Operator Interface, these systems use a single serial port for programming and runtime communication. Programming involves: opening the panel door, unplugging the RUN cable, then plugging in the PROGRAMMING cable. The GracePort® DSX Crossover Switch is installed between both devices and allows the user to program DEVIC E#1 or DEVICE#2 from outside the control panel. When programming is completed, the user returns the interface to "RUN" mode.

The GracePort® DSX has built in flexibility to separately configure the "RUN" pinouts and the "PROGRAMMING" port



pinouts in six different places figure 1):

Primary "RUN" Pinout Station

Secondary "RUN" Pinout Station

"DEVICE#1 PROGRAMMING PORT" Pinout Station

"DEVICE#2 PROGRAMMING PORT" Pinout Station

Configuration of "DEVICE#1" Run/Programming Cable

Configuration of "DEVICE#2" Run/Programming Cable

The GracePort® DSX comes configured pin-to-pin (1-1, 2-2...9-9). These devices are for mounting on the flat surface of enclosures having the same type environmental ratings.

For applications assistance call 800-280-9517.

Configuration Modes:

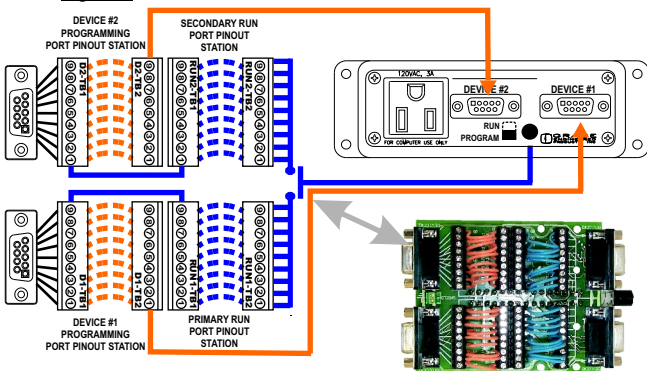
MODE A: "Pin-to-Pin Extension Cables" to connect DEVICE#1 and DEVICE#2 to GracePort®

- 1.) Use **D"x"-TB1/TB2** to pin-out the Run/Programming Cable(s)
- 2.) Use **RUN"x"-TB1/TB2** to pin-out the RUN Connection

MODE B: "Programming Cables" to connect DEVICE#1 to DEVICE#2

- 1.) The programming cables need to use the same pins (or more) as the run-time cable. Otherwise use Mode A. Terminals **D"x"-TB1/TB2** are pin-to-pin.
- 2.) Use **RUN"x"-TB1/TB2** to convert the programming cable pin-outs for DEVICE#1 and DEVICE#2 to an equivalent RUN pin-out connection. Use Pinout Worksheet on the back to assist in proper pinouts.

Figure 1



SPECIFICATIONS: ELECTRICAL

Low voltage (data), limited to 30 VDC
High voltage supply (for computer use only)
120 VAC, 15A (UL), 5A (CSA)
230-240 VAC, 16A (CE only)

SPECIFICATIONS: MECHANICAL

Housing: Cast aluminum base
Latch: Type 304 Stainless Steel (1CR18NI19)
Cover: Polycarbonate, UV rated, V-O Flame rated
Gasket: Thermoplastic elastomer
Insert Material: Acrylic UL94HB

APPROVALS



UL RECOGNIZED: E207344 (Outdoor Use)
CSA: LR110845 (not for interrupting circuit)
CE: EN61010/EN60950 (Foreign Power Outlets)



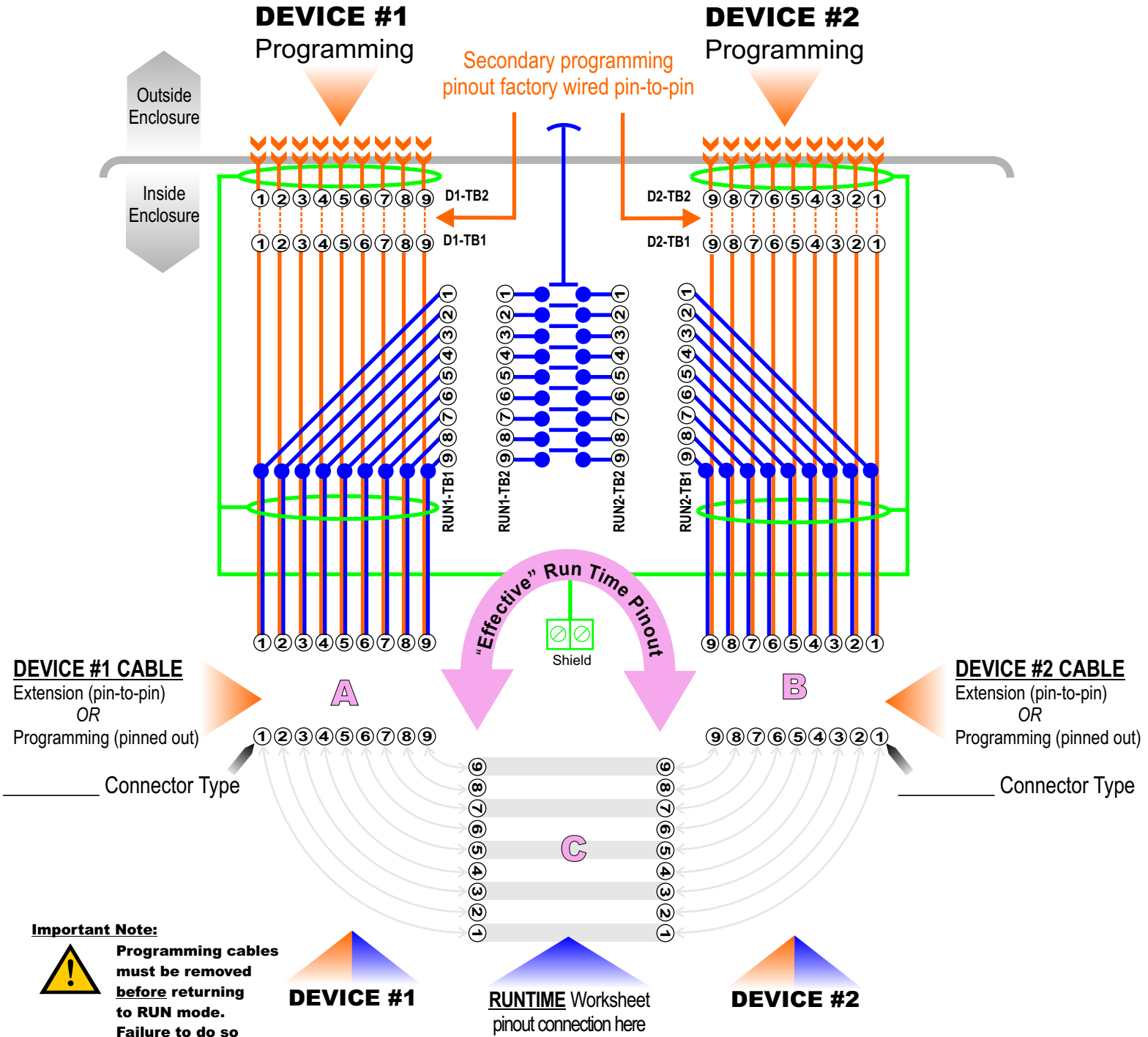
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R49 DSX Configuration Worksheet

This worksheet will assist with proper configuration of the R49 DSX. NOTE: All terminal block pairs come pre-wired pin-to-pin.



- 1.) Enter actual programming port pin-outs for DEVICE #1 and DEVICE#2
- 2.) Enter Run-Time pinouts into worksheet area **C**.
- 3.) Configure "Effective" Run-time pinout on **RUN1** or **RUN2** terminal block sets. The pinout from **A** to **B** should match **C**.
- 4.) If necessary, convert Run-Time/Programming cables to DB9 or utilize **D1-TB1** or **D2-TB1** to hard wire this connection with flying leads.



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