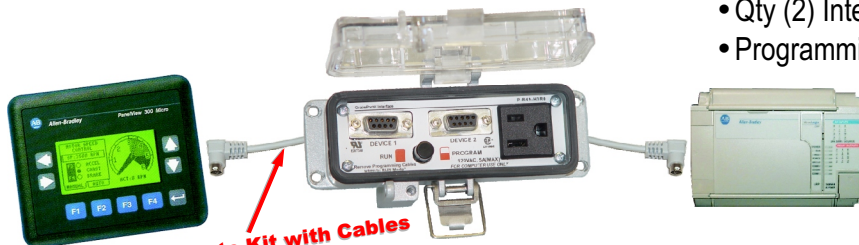
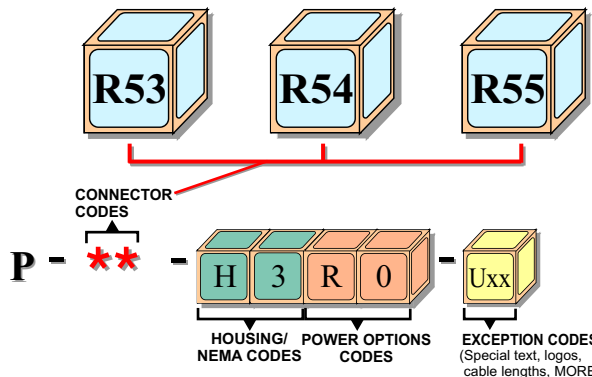


GracePort® Data Switch Crossover (DSX) Connector Code Data Sheet



P-R53-H3R0

GracePort® Crossover Switch MicroLogix to PanelView 300 Micro

The GracePort® DSX R53, R54, & R55 Series Crossover Switches are a family of programming interfaces for PanelView/AB Serial PLC's⁽¹⁾ Systems. These products are sold as complete kits which include:

- Qty (2) Interface Cables (PLC to DSX, & PanelView to DSX)
- Programming Cable
- Pre-configure DSX PCB with "Pinout Stations" to for 100% flexibility
- GracePort DSX Assembly with 120 VAC Outlet

The DSX is "non-electronic" and requires no software or special communications "box". **The generic version of this product is available as an "R49".**

	NEMA 1	NEMA 12/4	NEMA 4X	NEMA 4X Type 304 Stainless Steel	NEMA 4X Type 316 Stainless Steel
R53					
PanelView 300 Micro to MicroLogix, 120VAC	P-R53-H1R0	P-R53-H3R0	P-R53-H2R0	P-R53-M5R0	P-R53-M6R0
3Amp Circuit Breaker	P-R53-M1R3	P-R53-M3R3	P-R53-M2R3	P-R53-M5R3	P-R53-M6R3
R54					
PanelView 300 Micro to Serial PLC, MicroLogix--PanelView 300-1400, 120VAC	P-R54-H1R0	P-R54-H3R0	P-R54-H2R0	P-R54-M5R0	P-R54-M6R0
3Amp Circuit Breaker	P-R54-M1R3	P-R54-M3R3	P-R54-M2R3	P-R54-M5R3	P-R54-M6R3
R55					
Serial PLC--PanelView 300-1400, 120VAC	P-R55-H1R0	P-R55-H3R0	P-R55-H2R0	P-R55-M5R0	P-R55-M6R0
3Amp Circuit Breaker	P-R55-M1R3	P-R55-M3R3	P-R55-M2R3	P-R55-M5R3	P-R55-M6R3

Installation Instructions:

- 1.) Install the DSX Interface on the outside of the enclosure.
- 2.) Install the appropriate cables from the PanelView and PLC to the DSX.
- 3.) For programming, depress the "RUN/PROGRAM" maintained switch, which disconnects the "RUN" connections to allow for programming. In most applications, use a standard serial extension cable from the port on the front of the GracePort®.
- 4.) Once programming is completed, **REMOVE THE PROGRAMMING CABLES**, depress the maintained switch on the front of the GracePort® to the extended "RUN" position. **NOTE:** Remove programming cables when switching to/from "RUN" Mode.

(1) Applicable Devices: This product is designed for use with PanelView 300-1400 and 300 Micro, Most Allen-Bradley serial PLC's: SLC 5/03, 5/04, 5/05 (Channel 0); ControlLogix (Channel 0); MicroLogix 1000, 1200, 1500LSP (8MDIN Channel); MicroLogix 1500LRP (Channel 0); CompactLogix (Channel 0); FlexLogix (Channel 0)

	MicroLogix 1000, 1200, 1500LSP	MicroLogix 1500LRP	SLC 5/03, 5/04, 5/05 CH0	PLC-5, 5C, 5E, CH0 (Req's DB9-25 Converter)	ControlLogix CH0	CompactLogix	FlexLogix
	8 Pin Mini Din Interface		DB9 Serial RS-232 Interfaces				
PanelView 300 Micro (8 Pin Mini Din Interface)	R53						R54
PanelView 300-1400 2711-xxx16, 2711-xxx17 (DB9 Serial RS-232 Interface)	R54						R55

Note: For any application other than those listed above, please see interface code data sheet "R49".

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)



GRACE
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Designed to offer a convenient "thru-door" programming interface for MicroLogix/PanelView Systems. In most cases, the serial ports on these devices are used for programming and runtime communication. Without the DSX, 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 either the MicroLogix (Device#1) or the PanelView (Device#2) from outside the control panel. When programming is completed, the user returns the interface to "RUN" mode.

The GracePort® DSX comes fully configured with cables for each configuration as shown in Table 1. However, the DSX also has built in flexibility to configure the "RUN" pinouts and the "PROGRAMMING" port pinouts in six different places:

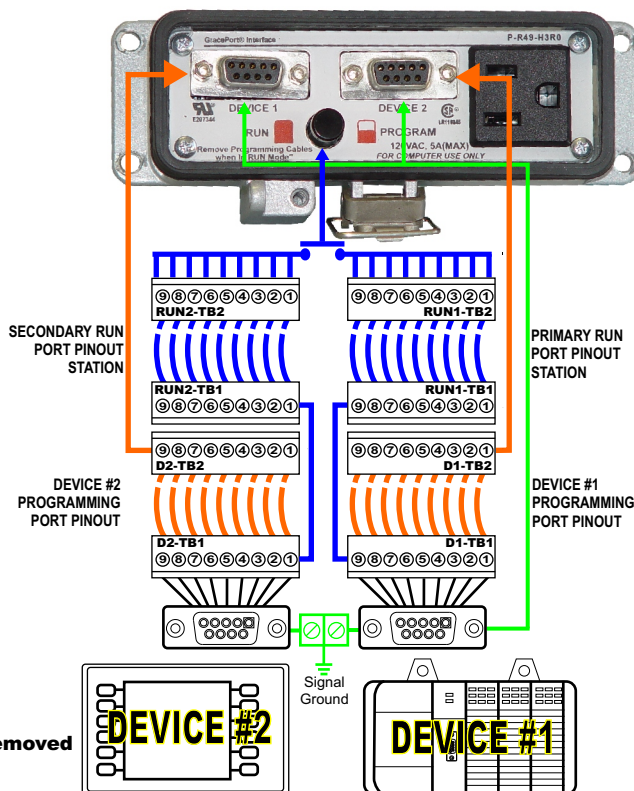
- Primary "RUN" Pinout Station
- Secondary "RUN" Pinout Station
- "DEVICE#1 PROGRAMMING PORT" Pinout Station
- "DEVICE#2 PROGRAMMING PORT" Pinout Station
- Configuration of "DEVICE#1" Programming Cable
- Configuration of "DEVICE#2" Programming Cable

How it works?

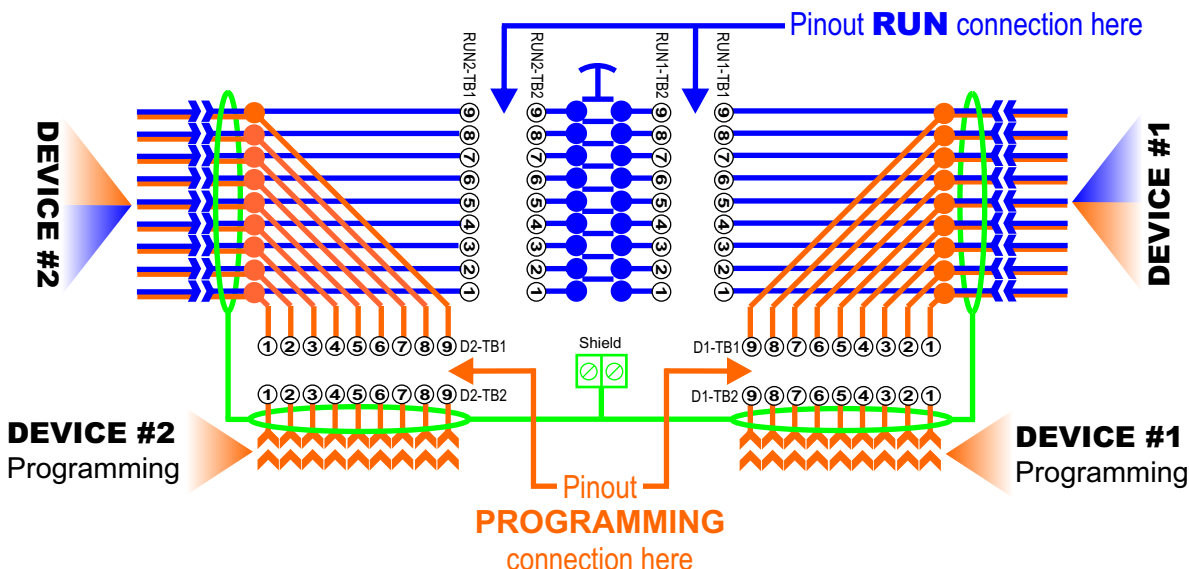
Program mode: The DSX disconnects the "RUN" connection (all 9 pins) between both devices. This makes both the DEVICE#1 and the DEVICE#2 programming ports fully accessible to the user from the outside of the panel.

Run Mode: The "RUN" connection is restored, thereby allowing both devices to communicate.

For applications assistance, please call us at 1-800-280-9517



Important Note: Programming cables must be removed **before** returning to RUN mode. Failure to do so may cause devices to fault.



(1) Applicable Devices: This product is designed for use with PanelView 300-1400 and 300 Micro, Most Allen-Bradley serial PLC's: SLC 5/03, 5/04, 5/05 (Channel 0); ControlLogix (Channel 0); MicroLogix 1000, 1200, 1500LSP (8MDIN Channel); MicroLogix 1500LRP (Channel 0); CompactLogix (Channel 0); FlexLogix (Channel 0)

Note: Pinout/configurations for R53, R54 & R55 can be found at www.graceport.com