IntelliFlex I/O

NDC1- Single Port Network Device Connector - C156.322
NDC3- Three Port Network Device Connector - C156.311

INSTRUCTION
PROGRAMMING

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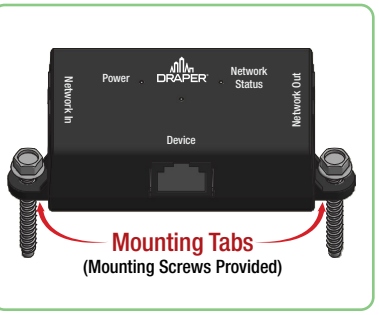
Section 1 - **Overview**

Network Device Connector (NDC) is used to connect IntelliFlex I/O devices into a network. It distributes both power and communications between devices.

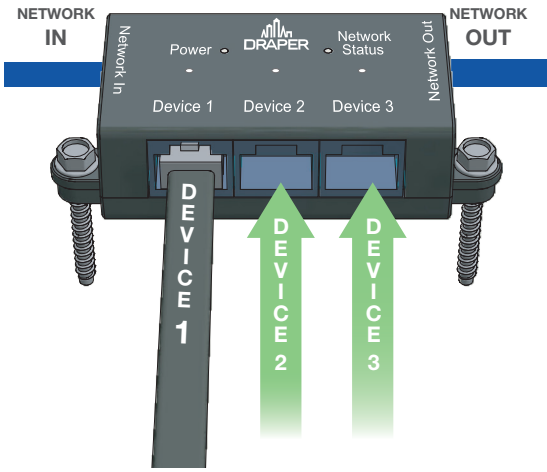
Section 2 - **Mounting to Structure**

1. Determine mounting location of NDC and mark on wall or ceiling.
2. Using appropriate fasteners, secure NDC to structure using the side tabs.

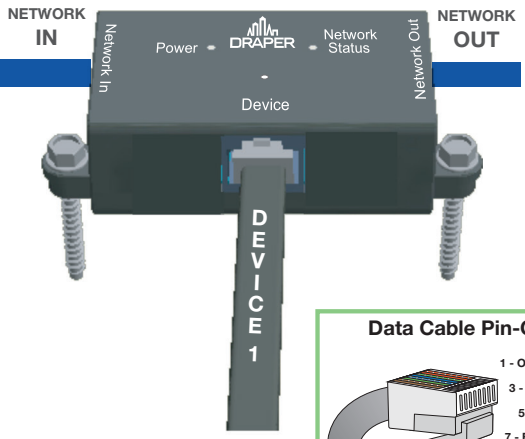


Section 3 - **Wiring Details**

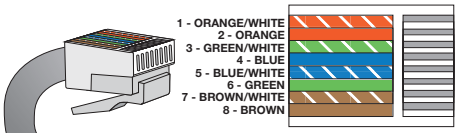
NDC3 - C156.311
3-port Network Device Connector



NDC1 - C156.322
1-port Network Device Connector



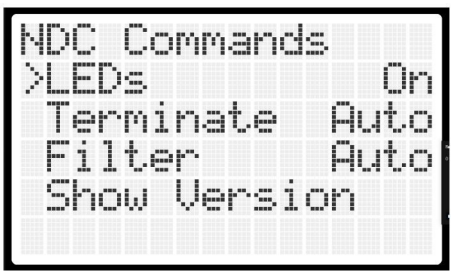
Data Cable Pin-Out - RJ45 Connector



Do Not use Pass-Through Connectors!

Section 4- **Motor Limit Tool Programming Instructions** (MLT# C202.060 can be used to modify NDC settings)

1. Refer to the IntelliFlex I/O Motor Limit Tool instructions for connecting MLT to NDC.
2. Select "System Settings"
3. Select "NDC Commands"



COMMAND	VALUE	RESULT
LEDs	ON	Normal LED Functions
	OFF	All LEDs will be OFF
TERMINATE	AUTO	Termination is automatically determined
	OFF	Termination is turned OFF for all NDCs
FILTER	AUTO	Automatically detects faulty devices and disables device port
	OFF	Disables automatic faulty device detection
SHOW VERSION		NDC Power LED will blink, indicating Firmware Version # (Blink pattern follows Network LED)

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Section 4 - **LED Indicators**

LED NAME	LED COLOR	LED DISPLAY	DESCRIPTION
STATUS LED	GREEN		Power to the device
	RED		Network Termination is ON
NETWORK STATUS	BLINKING YELLOW		Communicating on the network. The blink pattern shows total number of devices on network. A short blink = 1 device. A long blink = 10 devices
DEVICE	ALWAYS BLUE		Off - No device connected Solid On - Device Connected Blinking - Device Issue

Section 5 - **Troubleshooting**

OBSERVATION	POSSIBLE CAUSE	POTENTIAL SOLUTION
LEDs OFF	No Power	Confirm Power to Motors
LEDs OFF	Faulty Network Cable	Check connections on Network In/Out Cables
LEDs OFF	Device Plugged into Network Port	Remove Device Cable from Network In/Out port
DEVICE LED OFF	Device Not Connected	Ensure device cable is securely engaged into device port
DEVICE LED OFF	Faulty Device Cable	Test Device cable with Network Cable Tester
DEVICE LED OFF	Faulty Device	Test Device cable with Network Cable Tester
DEVICE LED BLINKING	Faulty Device Cable	Test Device cable with Network Cable Tester
	Faulty Device	Move Device to a different NDC. If issue persists, replace device
POWER LED FLASHING	Network Cable Plugged into Device Port	Remove Network IN/OUT Cable from Device Port
POWER LED RED ON MIDDLE NDCs	Auto-termination Failure	Use Motor Limit Tool to manually enable/disable termination
INCONSISTENT NETWORK STATUS BLINK PATTERN	Faulty Network Cable	Break Network into smaller segments to isolate faulty cable
		Check blink-pattern @ each NDC to determine where network connection break occurs; Replace network cable
WRONG # BLINKS NETWORK STATUS LED	Bad Device	Ensure DEVICE LED is ON for each DEVICE, if not refer to DEVICE LED OFF/BLINKING
	Bad Device Cable	Ensure DEVICE LED is ON for each DEVICE, if not refer to DEVICE LED OFF/BLINKING
	Bad Network Cable	Check blink-pattern @ each NDC to determine where network connection break occurs; Replace network cable
	Device Not Connected	Ensure DEVICE LED is ON for each DEVICE, if not refer to DEVICE LED OFF/BLINKING