

D77E-QPLR Terminator/Power Tap/Long Run Adapter Install Leaflet**Installation of the D77E-QPLR**

The D77E-QPLR is designed to be used in industrial applications and installed in accordance with this document. The intended use of the D77E-QPLR is for use in clean, dry environments.

The D77E-QPLR is a multi purpose device, serving as an active terminator, a power tap and an adapter to RJ and open interconnect cables.

Mount the D77E-QPLR to the DIN Rail

To mount the D77E-QPLR to a DIN rail the following procedure must be performed.

- Rotate the orange locking cams to unlock the customer wiring terminal from the D77E-QPLR module.
- Remove the terminal from the D77E-QPLR.
- Using a screwdriver or fingernail, gently pull out the locking tab located at the right side center of the D77E-QPLR module.
- Insert the D77E-QPLR module on to the DIN rail.
- Depress the locking tab to secure the D77E-QPLR to the DIN rail.
- Reassemble the customer wiring terminal to the D77E-QPLR.

Install the Field Wiring on the D77E-QPLR

The customer wiring terminal is used to connect the field wiring to the D77A-QPLR. Each terminal accepts two wires of the following size.

Wire Type	Wire Size	Terminal Torque
Solid Cu-90°C	#14 - # 22 AWG	4.5 in-lbs.
Stranded Cu-90°C	#16 - # 22 AWG	4.5 in-lbs.

The "+" and "-" pins on the terminal are used to connect the 24V DC power supply to QCPort. All the +s and -s are internally connected within the D77E-QPLR. It is not required to ground the "-" pin since the ground will be applied at the power supply. For more information on proper power wiring, please refer to the QuickPort System Install and Users Guide **MN05001002E**.

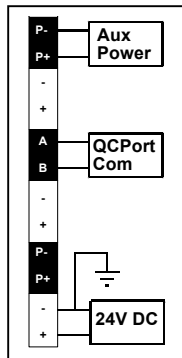
The P- and P+ are used for connecting power to the outer two positions on the QCPort Backplane.

Activate the Terminator in the D77E-QPLR

To activate the terminator, turn the rotary switch on the top face of the QPLR to the green portion of the dial, an LED above the word ON will illuminate when the active terminator is enabled.

Connecting Long Run Cable to the D77E-QPLR

QCPort communication is brought out to the A and B pins on the terminal. These pins are used to connect long run cable between QCPort devices. For more information, please refer to the QuickPort System Install and Users Guide **MN05001002E**.

**LED Specification of the D77E-QPLR**

LED	Function
ON	ON – Terminator is enabled OFF – Terminator is disabled
C	Indication of communication on the QCPort system. Every message will be indicated by a blink of the LED, if the LED is solid ON, then there is active scanning taking place. A solid on could also indicate that the active terminator is disabled.
QP	Indication of power applied across the "+" and "-" terminals (QCPort power).
AP	Indication of power applied across the P- and P+ (auxiliary power).

Environmental Ratings of the D77E-QPLR

Transportation and Storage	Temperature	-50°C to 80°C (-58°F to 176°F)
	Humidity	5-95% non-condensing
Operating	Temperature	-25°C to 55°C (-13°F to 131°F)
	Humidity	5-95% non-condensing
	Altitude	Above 2000 meters (6600 feet) consult factory
	Shock	15G any direction for 11 milliseconds
	Vibration	5 – 150 Hz, 5G, 0.7 mm maximum peak-to-peak
	IEC 68-2-6	
	Pollution Degree	2
	Enclosure	IP 20
	Power Draw	15 mA

Approvals/Certifications of the D77E-QPLR

Electrical/EMC	
• ESD Immunity (IEC61000-4-2)	+/- 8kV air, +/- 4kV contact
• Radiated Immunity (IEC61000-4-3)	10V/m 80-1000 MHz, 80% amplitude modulation @ 1kHz
• Fast Transient (IEC61000-4-4)	+/- 2kV supply and control +/- 1kV communications
• Surge (IEC61000-4-5)	+/- 1kV line-to-ground +/- 2kV line-to-line
• RF Conducted (IEC61000-4-6)	10V, 0.15 – 80MHz
• Magnetic Field (IEC61000-4-8)	30 A/m, 50Hz
Ingress Protection Code	IP20
Radiated and Conducted Emissions	EN5011 Class A
Agency Certifications	UL 508 CUL (CSA C22.2 No. 14) CE (Low Voltage Directive)

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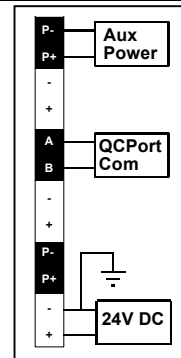
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• RF Conducted (IEC61000-4-6)	10V, 0.15 – 80MHz
• Magnetic Field (IEC61000-4-8)	30 A/m, 50Hz
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