



TORCH WIZARD®
NOZZLE CLEANING STATIONS

ETHERNET STATION SETUP

Installation,
Maintenance
and Warranty
Information

Model

EL-NCS-ACE-20-SC
EL-NCS-ACED-20-SC



SHIP DATE

SERIAL #



**FAMILY OWNED
AMERICAN MADE**

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1.0 ETHERNET I/O

The Torch Wizard® Ethernet Model Cleaning Station features a Turck ethernet module (Pt. # FEN20-16DXP) for network/PLC connectivity. This provides a simple interface using, for example, Allen Bradley's Compact Logic family PLC's to control the clamp, anti-spatter spray and optional wire cutter while also monitoring the clamp position.

Ethernet Module Features

- ▶ 24VDC
- ▶ 16 digital PNP Inputs or Outputs
- ▶ 4 configurable PNP inputs or outputs
- ▶ 1 Amp outputs
- ▶ Ethernet/IP, Modbus TCP, or PROFINET slave

**Connection Requires
4 Pin Male to Ethernet
Hybrid Cable**
(or 4 pin male with other
compatible end that connects
to the PLC)



Ethernet Station

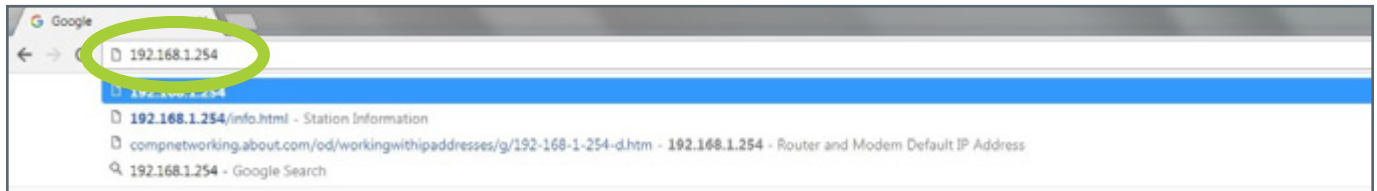
2.0 IP ADDRESS SETUP

The default IP address of the unit is: 192.168.1.254

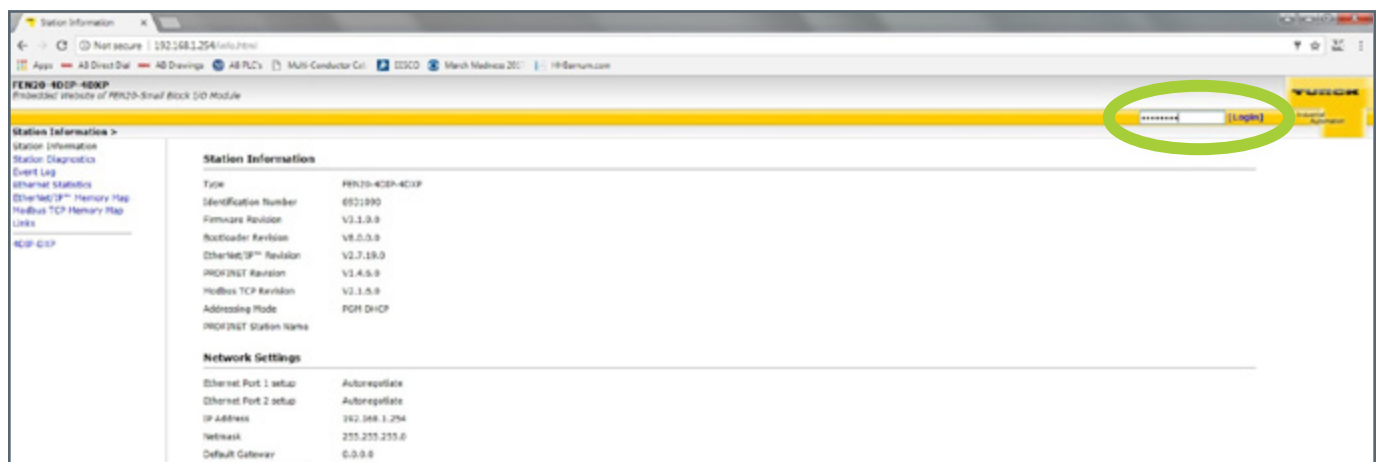
Using an Ethernet patch cable, connect the LAN port of your PC to the Ethernet port of the device.

Go to your LAN settings of your PC and set the Static IP address of your computer to 192.168.1.XXX but do not use .254 as that is the address of the device.

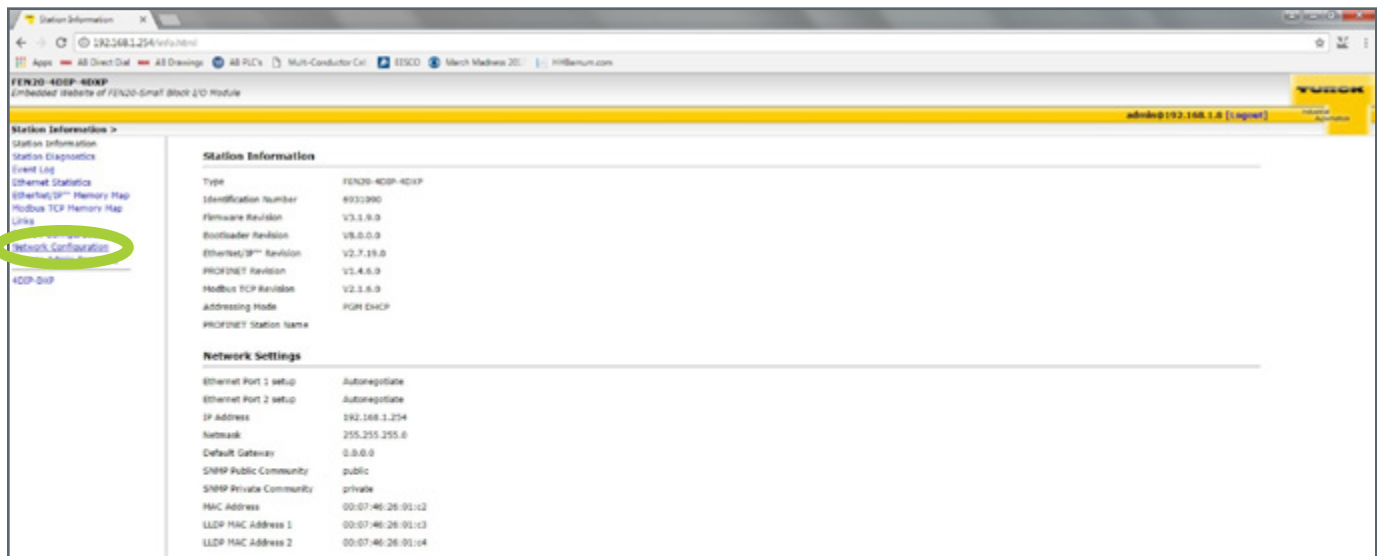
Open your Web Browser and enter the IP Address of the device (192.168.1.254) in the command line.



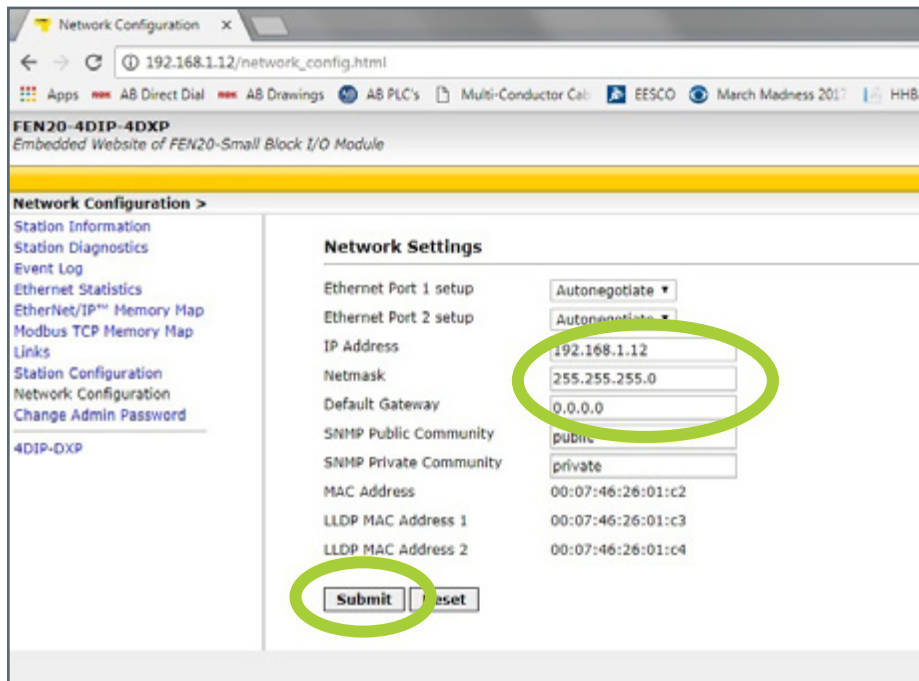
Login: In the upper right corner of the page, click on the password entry box and enter "password" as the password and click on the [Login] link.



Network Config: Click on Network Configuration on the left side of the page.



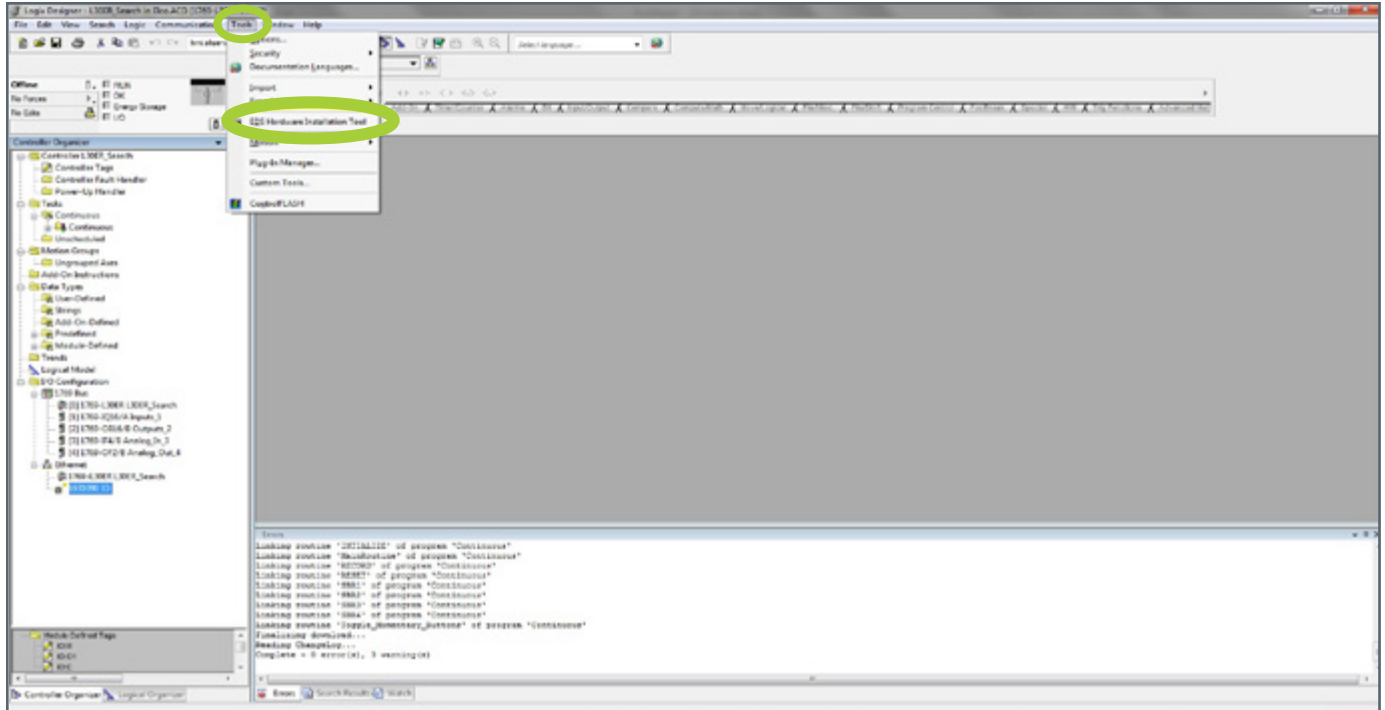
To Change the IP Address: Enter the desired IP Address, Subnet Mask and Gateway info. Click on the Submit button to save. Click on Logout to exit and close browser.



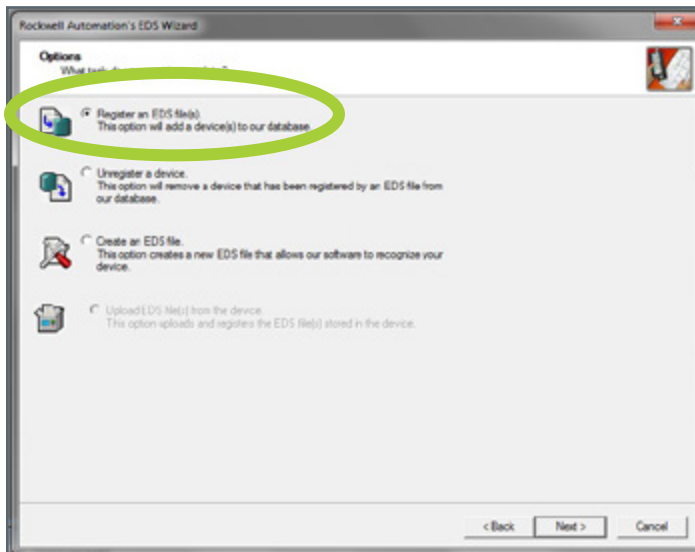
3.0 ALLEN BRADLEY COMPACT LOGIX SETUP

This section describes setting up an Allen Bradley Compact Logix family processor with the Torch Wizard® Nozzle Cleaning Station.

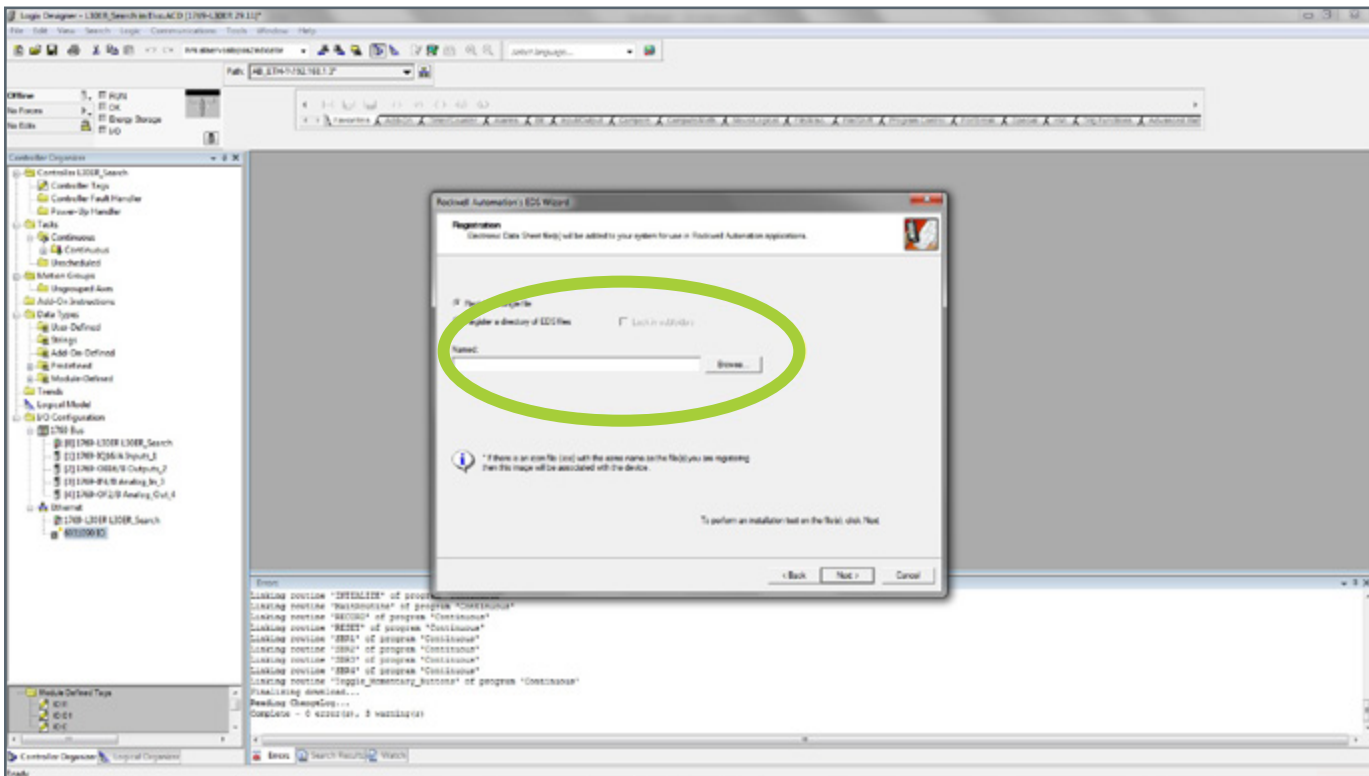
Register EDS Files: Open an existing program that the device will be connected to and select the EDS Hardware Installation Tool under the Tools menu.



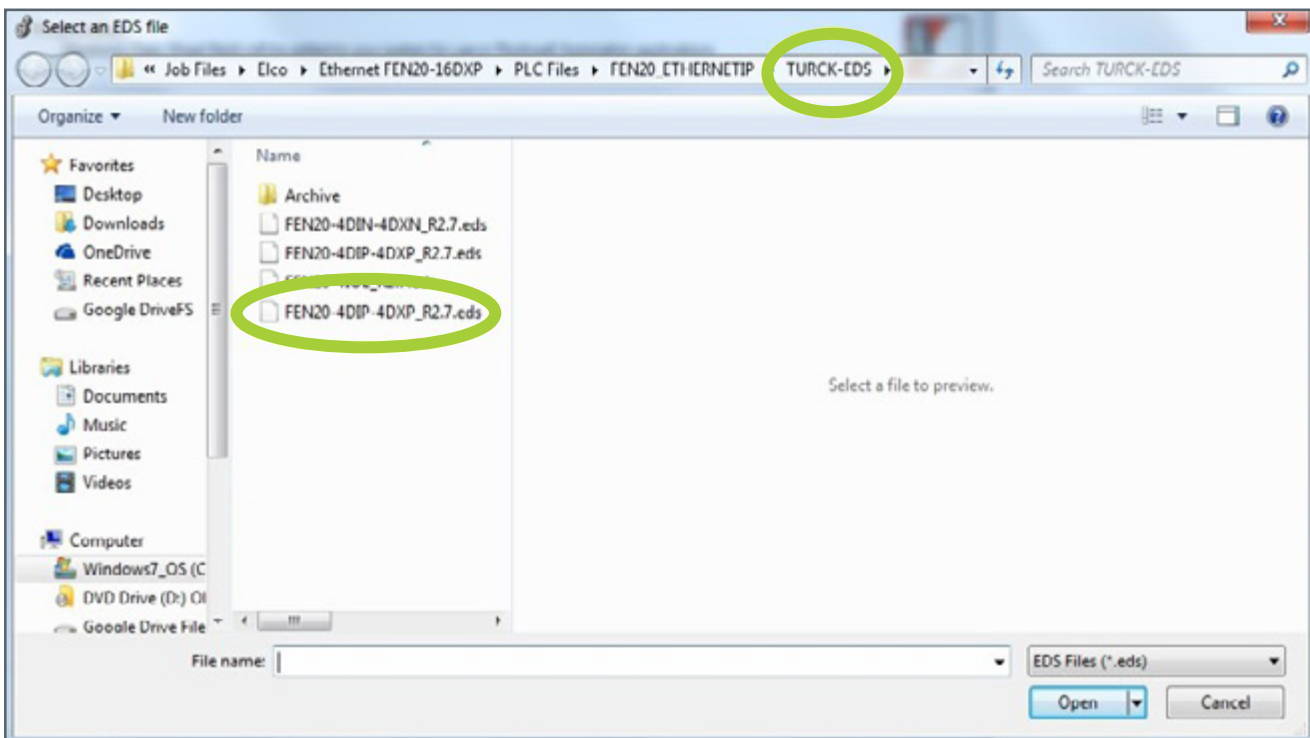
Using the EDS Wizard, select Register an EDS File.



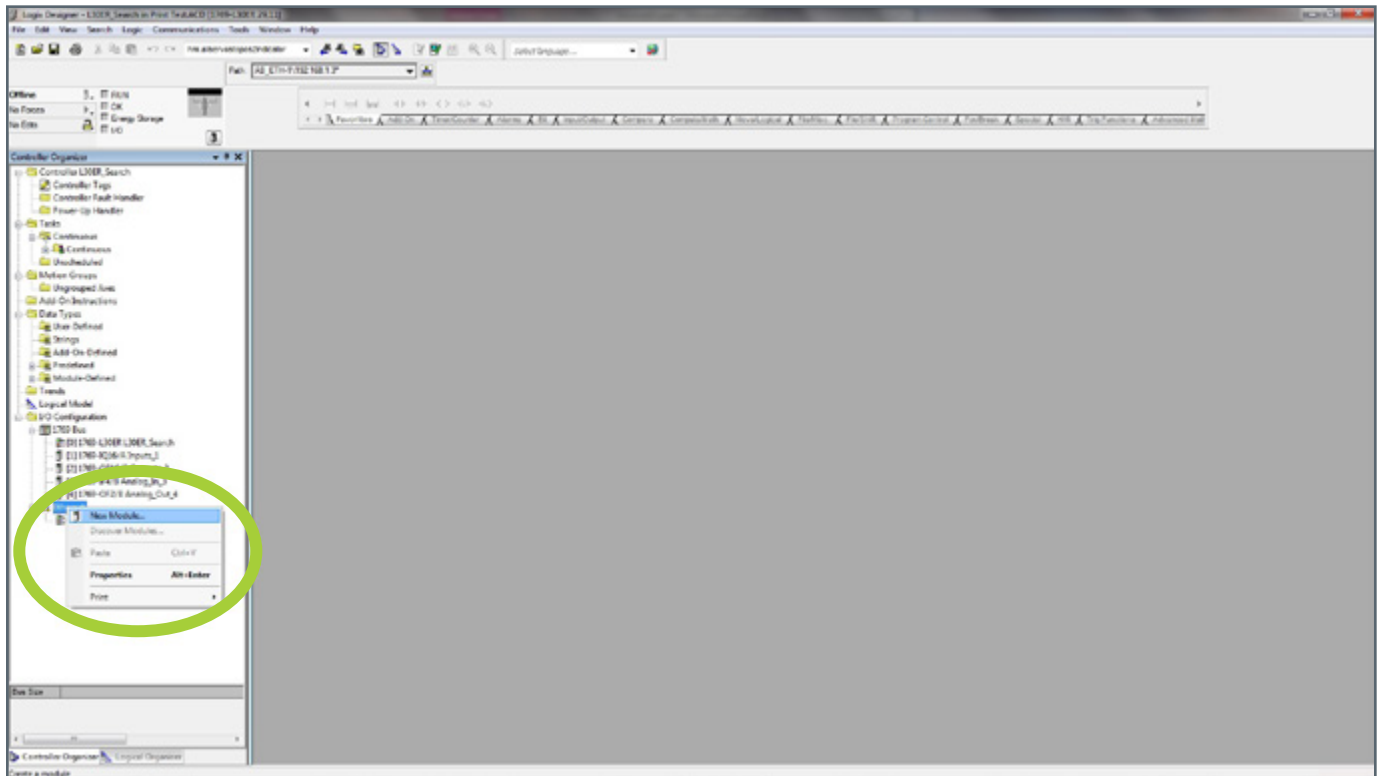
Click on Browse to open Windows Explorer.



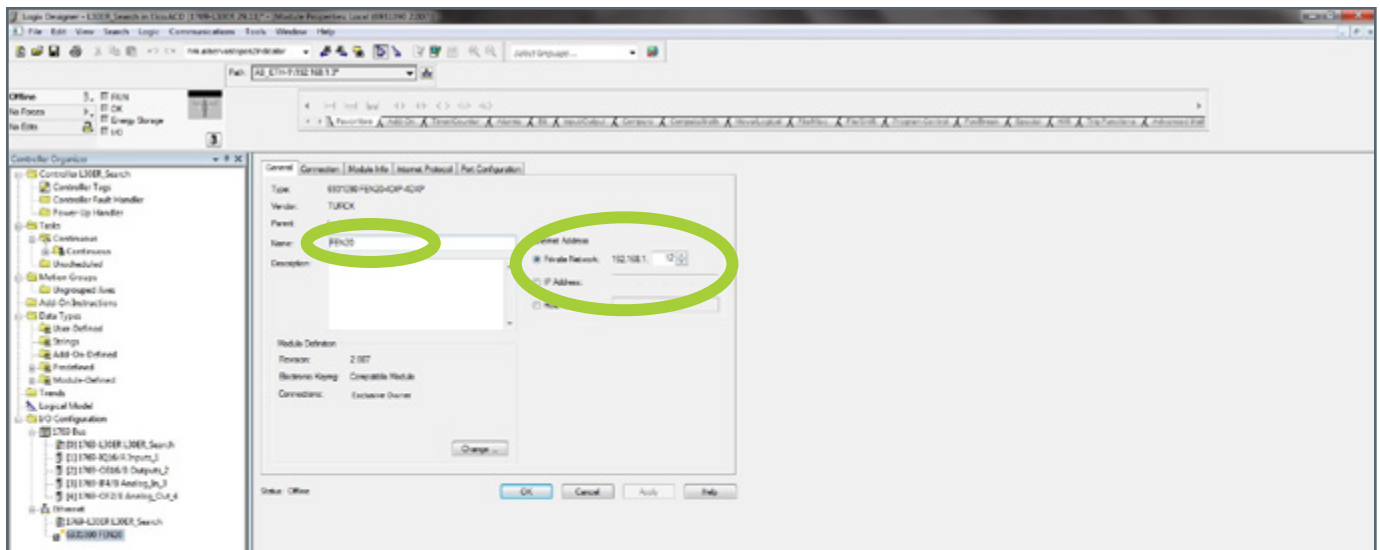
Open the TURCK-EDS Folder and select the FEN20-4DIP-4DXP.eds file and select NEXT. Follow the prompts to complete the installation.



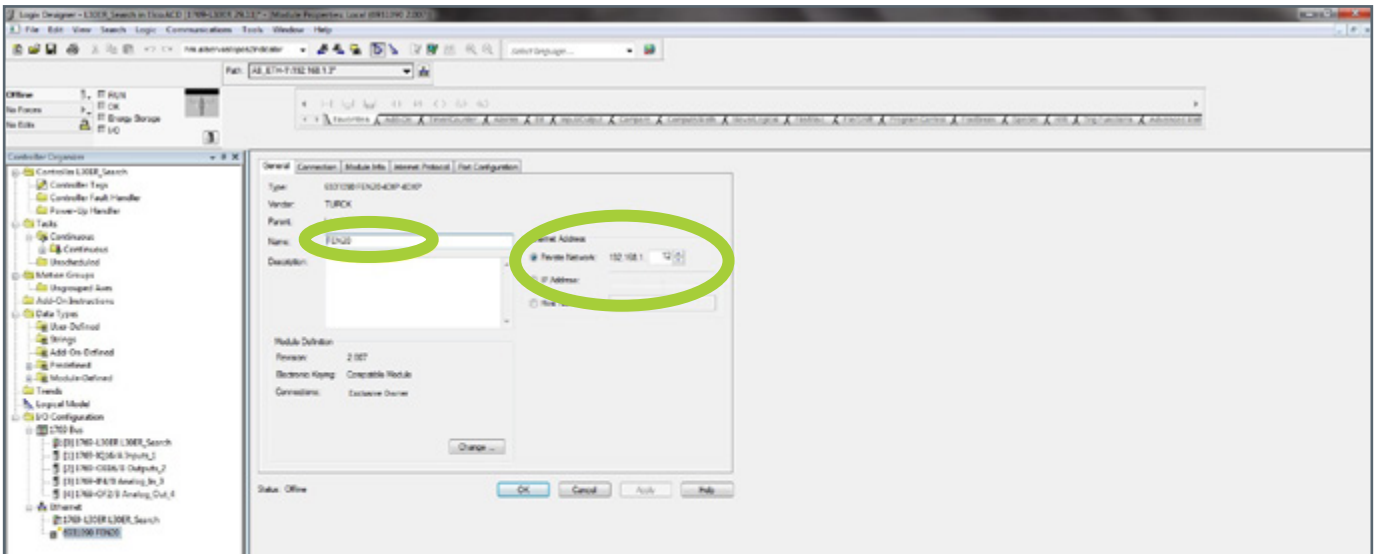
Install Ethernet Driver: Right click on the Ethernet link on the left side of the window and select New Module.



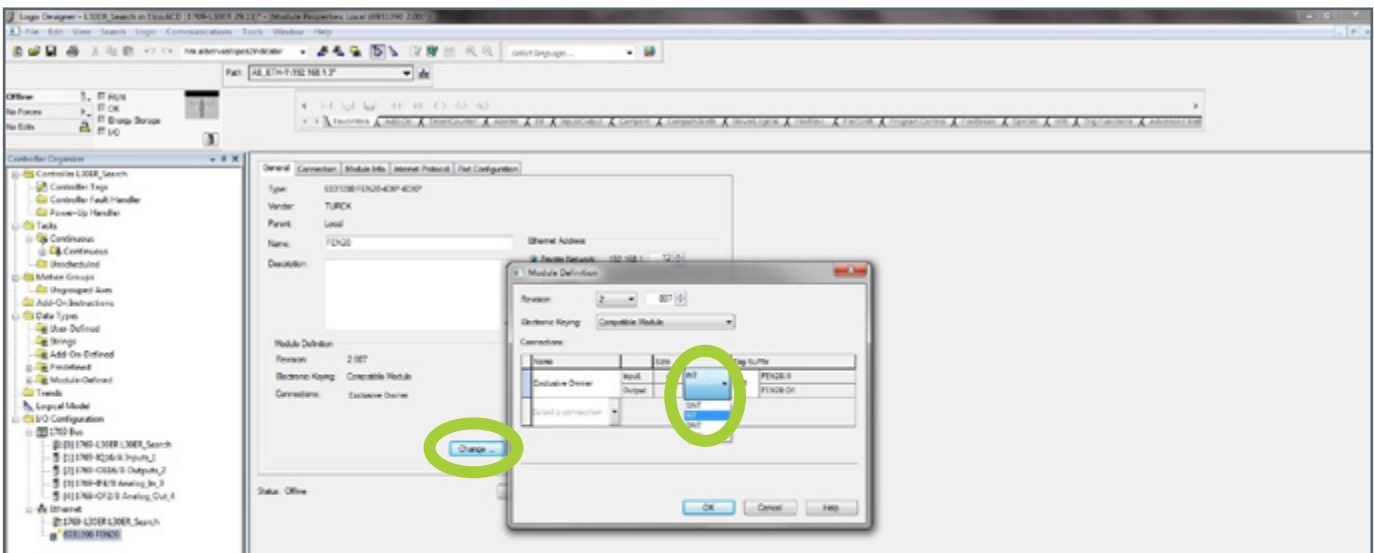
Enter a name you want to give the driver. Example: FEN20



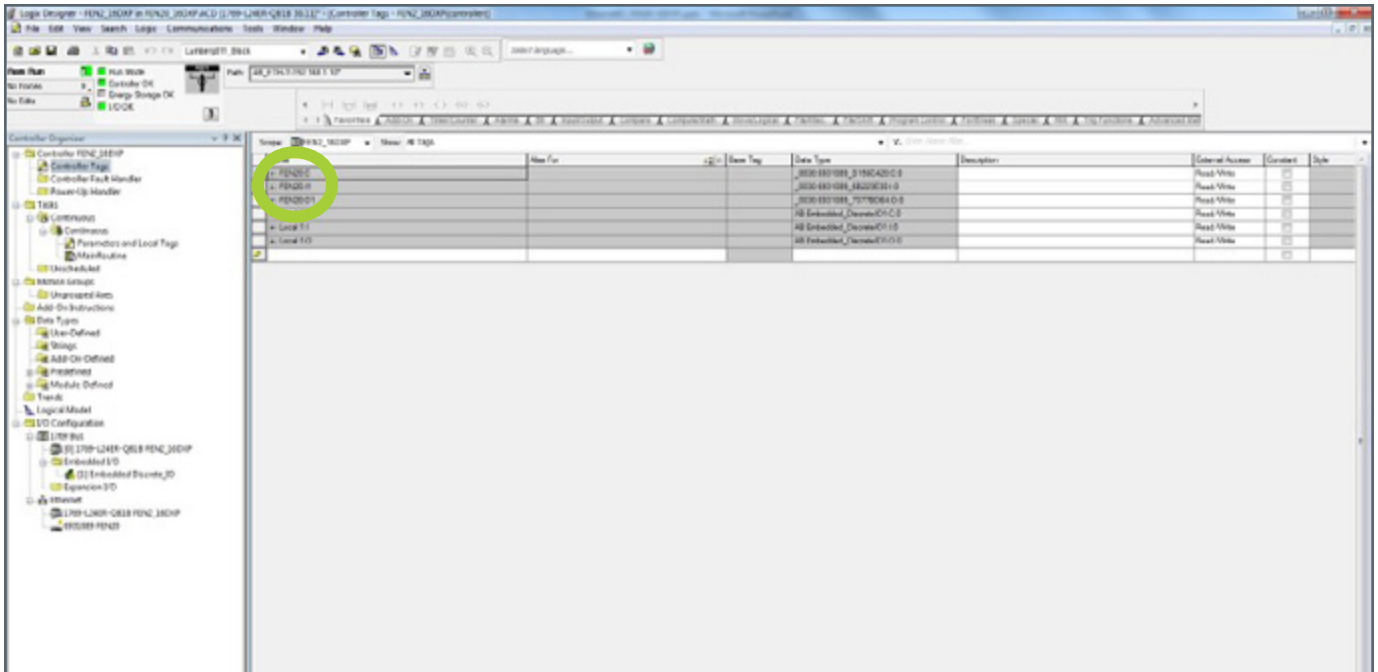
Enter the IP Address of the Turck Ethernet I/O device.



Select Change to modify the Module Definition parameter size and select INT. Press OK and Exit.



Controller Tag Description: Open the Controller Tags and there will be three tags created that are associated with the Turk Ethernet module.

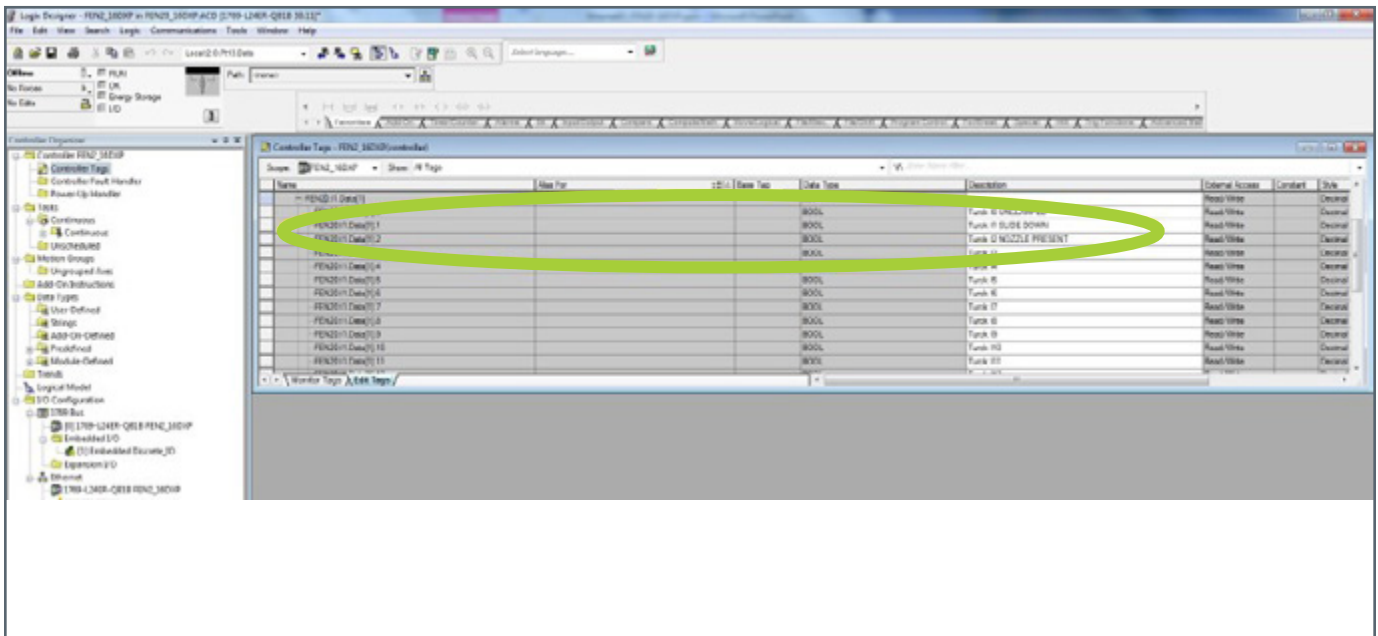


Inputs:

Unclamped Cyl Switch: FEN20:I1.Data[1].0

Slide Down Cyl Switch: FEN20:I1.Data[1].1

Nozzle Present Prox Switch: FEN20:I1.Data[1].2



Outputs: Controller tags are as follows:

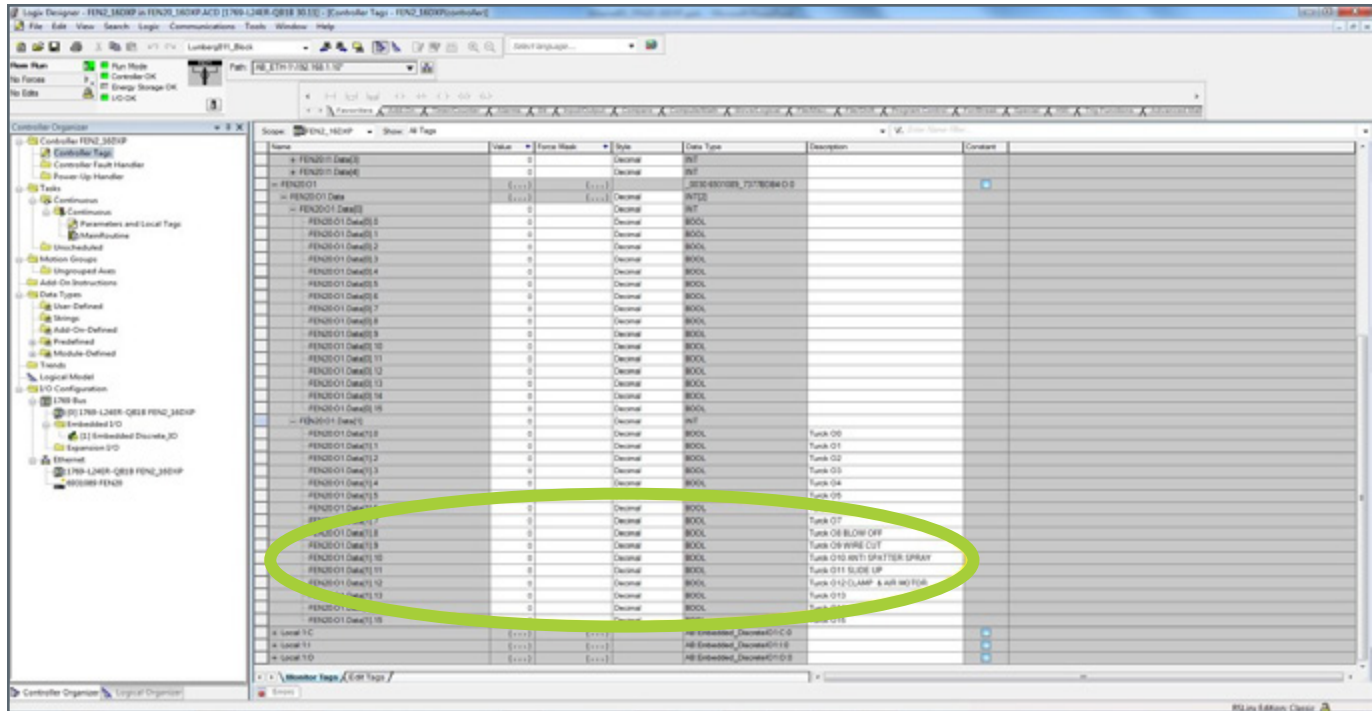
Blow Off Valve = FEN20:01.Data[1].8

Wire Cut Valve = FEN20:01.Data[1].9

Anti-Spatter Spray Valve = FEN20:01.Data[1].10

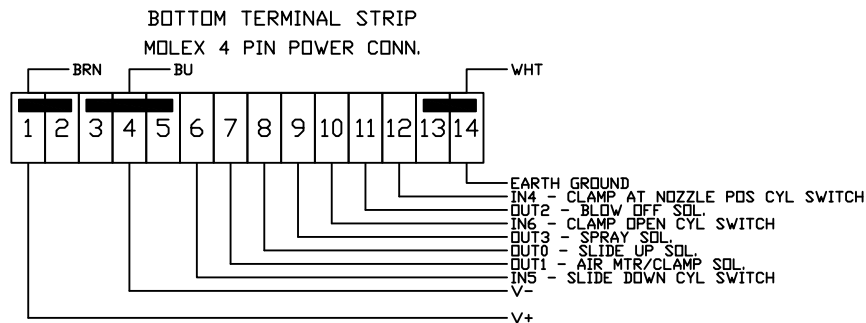
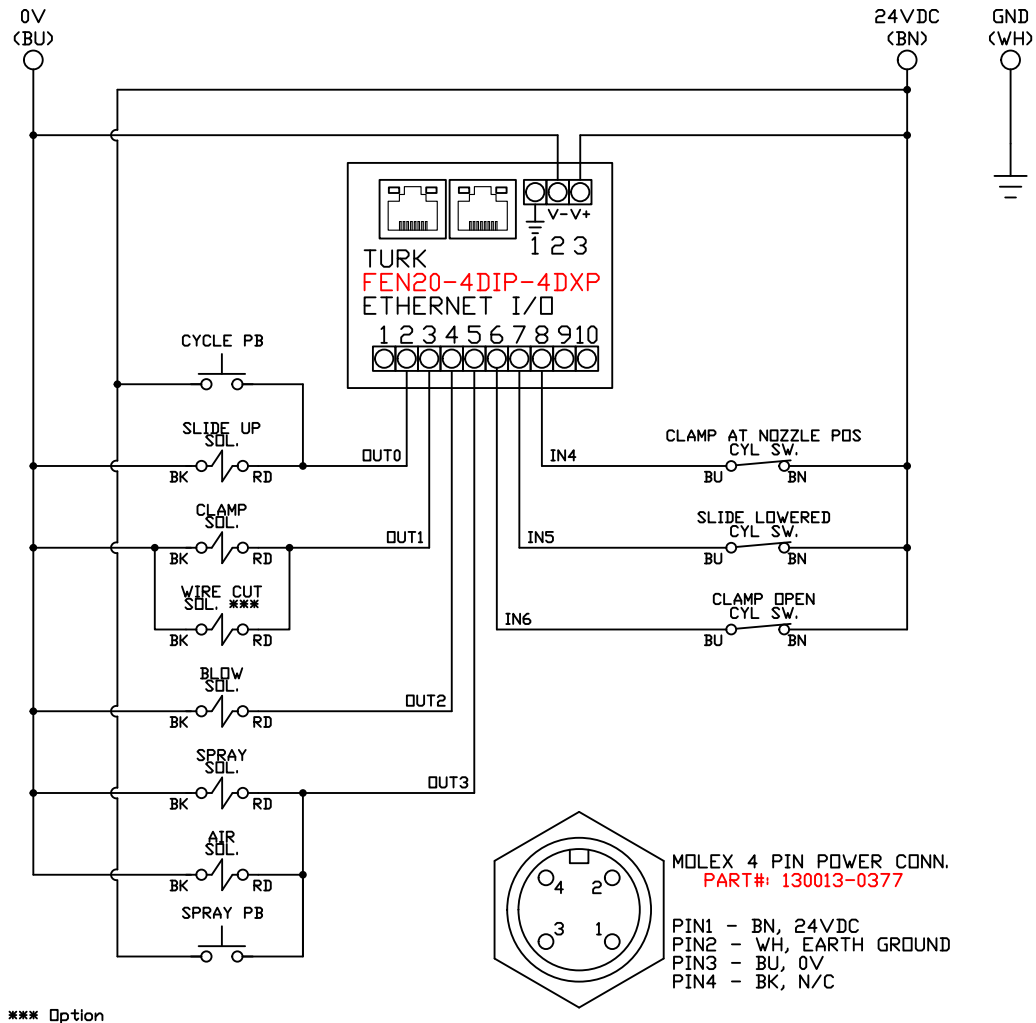
Slide Up Valve = FEN20:01.Data[1].11

Clamp/Air Motor Valves = FEN20:01.Data[1].12



4.0 ELECTRICAL SCHEMATIC (4-PIN)

PNP ETHERNET CIRCUIT WITH 4 PIN CONNECTOR



NOTE: Wire Cutter not included on EL-NCS-AE-20 model, however it may be added to the unit later if desired.



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