The TAC Xenta 491/492 I/O module belongs to a family of I/O expansion modules approved for use within the TAC smoke control system.

The Xenta 491/492 is applied to the control of the full spectrum of HVAC and other facility equipment. The application of this equipment may be part of an automated or manual smoke control response.

Controller Network Communications

The Xenta 491/492 I/O module communicates with the managing controller using a common network, LonWorks TP/FT-10, 78Kbps LON (Local Operating Network). The LON communications is power limited and supervised from the FSCS controller. Maximum cable length is 8850ft/2700m (when using bus configuration and specified 16AWG cable) See smoke control system manual for table of cable and distance specifications.


The Xenta 491/492 –U8 I/O module is UL Listed (UL864) for application in a TAC Smoke Control System. This data sheet provides information, instructions and restrictions pertaining to the proper application of this specific product in a smoke control system. This data sheet takes precedence over other general product installation and application information for the Xenta 491/492 and must be used in conjunction with the "Smoke Control Systems Manual" (0-004-7897-0). The manual provides a system level view of the smoke control application and provides additional information regarding the various products that can be interconnected to form a system.

General Application

The TAC Xenta 491 and 492 are Analog Output modules in the TAC Xenta family. They are used as expansion modules for the TAC Xenta controllers, connected by the common network.

Both modules have eight analog outputs. In addition, the Xenta 492 is equipped with manual override for the analog output values.

The Xenta 491/492 is associated and configured to be managed from a a specific Xenta controller (301, 302 or 401) with the assistance of the TAC Menta ® graphical engineering tool .
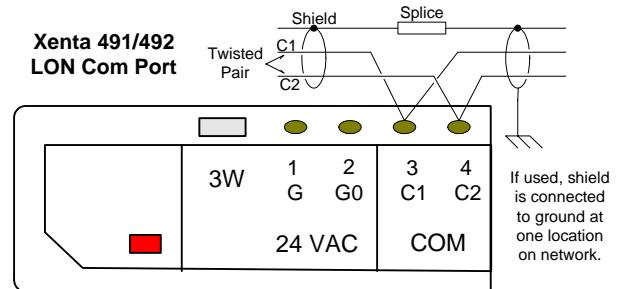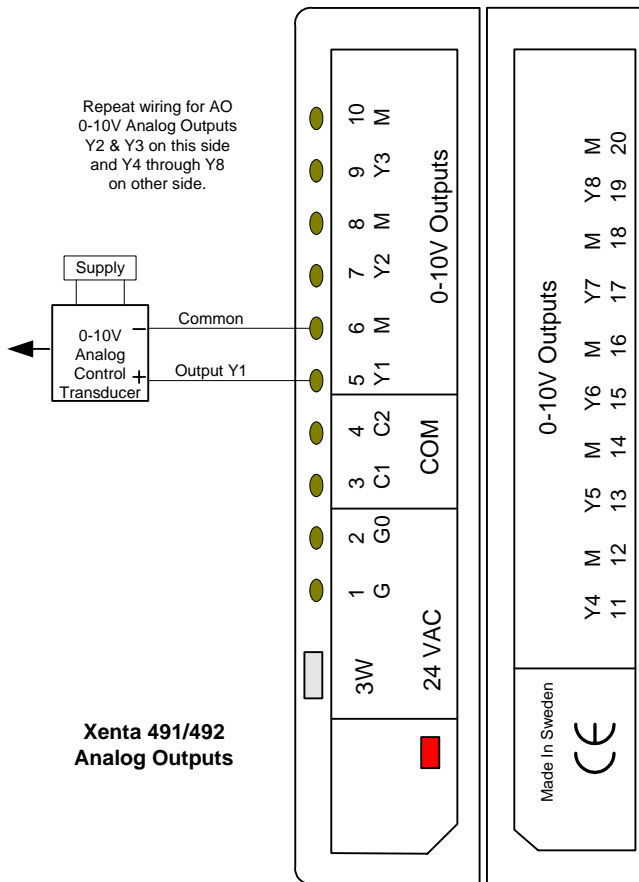
LON Network Integrity

In smoke control applications, the LON network communications cable may only interconnect with products that are UL864 listed. The smoke control system manual identifies the other TAC and 3rd party products that may be interconnected in the smoke control system with the Xenta 491/492.

Communications integrity to/from the Xenta 491/492 module must be supervised from the X301/302/401 base controller and this status should be supervised by the FSCS controller. The FSCS should be configured to enunciate any communications faults detected in the connectivity with the controllers used in the smoke control application. The base controller managing the Xenta 492 module should produce an FSCS equipment fault enunciation if any of the manual override switches are not in the "Auto" position.

Analog Voltage Output Connections

The Xenta 491/492 controllers provides eight analog (0-10V) outputs for proportional control of the field equipment.

AO Control Output: 0-10Vdc
AO Control Current: 2ma max.
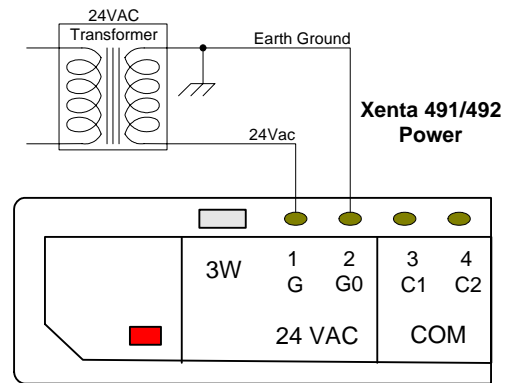AO Wire Length (Actuator self powered):   660ft.22awg

**Xenta 491/492
Analog Outputs**

Enclosure

The Xenta 491/492 I/O Module is housed within a plastic enclosure and must be plugged into an Xenta 400 mounting base (Part # 074-0902-x) ordered separately. To simplify installation, the mounting base can be pre-mounted using mounting holes in the base, or snapped onto standard TS 35mm DIN rail (EN50022) and should be installed within one of the ENCL-.. series enclosures designated in the smoke control system manual.

Operating Environment

Operating Temperature: 32 to122^{o}F (0 to 50°C)
Storage Temperature: -4 to122^{o}F (-20 to 50°C)
Humidity: max. 90% RH non-condensing

Power

The Xenta 491/492 I/O module is powered with 24VAC from one of the XFMR…. series transformers designated in the smoke control system manual.

Power Input: 24VAC +-10%
                                60Hz @ 3VA Max

All inputs and outputs are Class 2.