FireBus

FB-FirePAC®
Standard Termination Panel (STP)
8800-STP-08IO 8 Ch. Discrete Input/Output

Overview
FB-FirePAC is a Protected Premesis Control Unit and Combination System that is NRTL tested and approved to meet ANSI / UL-864 10th Edition and various other UL & NFPA codes as required by this standard.

The FireBus 8 Channel Discrete Input/Output Standard Termination Panel (8800-STP-08IO) is designed to support discrete inputs from Initiating Device Circuits (IDC) or discrete outputs to standard Notification Appliance Circuits (NAC) or Releasing Device circuits. IDC's in FB-FirePAC systems are supervised two wire dry contact type field devices like manual alarm stations, contact style heat detectors, valve or door position switches etc. that incorporate an End Of Line (EOL) device for line monitoring. Standard NAC's are 2 amp output channels supervised to detect open and short circuits using the normal electrical polarity for the channel.

This Standard Termination Panel (STP) is completely passive having only terminals; there are no active electronics to interfere with the input or output module of the Programmable Automation Controller (PAC).

STP Field Side Connections
Each of the eight channels has two field terminals and a disconnect switch for circuit isolation to facilitate maintenance and troubleshooting.

- Field terminals support 24 AWG to 10 AWG wire
- Each channel has a disconnect switch

STP System Side Connections
The system side connections are factory wired into the PAC input or output module. There are sixteen "fixed" terminals for the PAC input or output wiring.

Hardware Compatibility
The 8800-STP-08IO 8 Channel discrete I/O STP is compatible with FB-FirePAC systems using the 1756 ControlLogix® platform from Rockwell Automation. Two 8 channel STP's are paired with a 1756-IB16D 16 channel input module or 1756-OB16D 16 channel output module.

Operation
The entirely passive 8800-STP-08IO supports Initiating Device Circuits (IDC's), Notification Appliance Circuits (NAC's) and Releasing Circuits as defined by ANSI / UL-864 and NFPA 72 for use in the fire & gas system and utilizes the ControlLogix 1756-IB16D and 1756-OB16D supervised 24 VDC discrete input and output modules to implement these circuits. These modules are software configured for open circuit and short circuit detection.

The 8800-STP-08IO is designed to support "2-Wire", Class-B IDC's, NAC's and Releasing circuits.

The architecture of the STP is split in two, a system side and a field side. The terminals on the system side are factory wired to the PAC I/O module and are sized appropriately for internal cabinet wiring.

The terminals on the field side are for landing the wiring from the field devices and are sized appropriately for field wiring (18 AWG minimum, 10 AWG maximum).
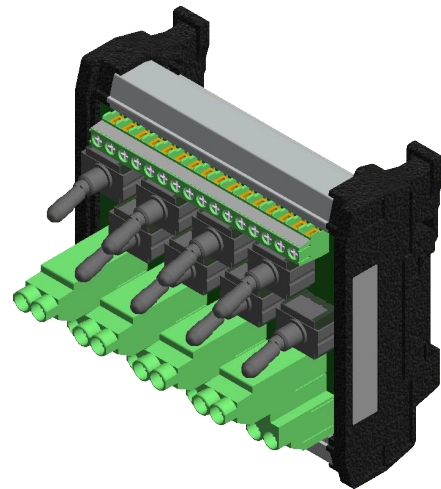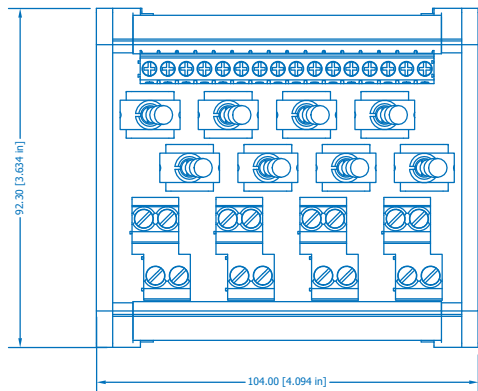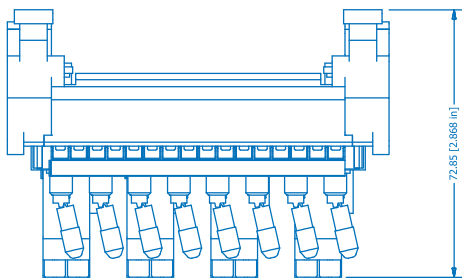
Disconnect Switches
Between the system and field sides each channel has a double pole double throw "disconnect switch" that opens both legs of the circuit between the PAC I/O module and the field device for commissioning or maintenance.

With the disconnect switch open, the field wiring "loop" can easily be checked for proper EOL and circuit resistance as well as for potential earth ground faults without interference from the PAC I/O module electronics.

STP Field Side Connection Markings
Polarity markers (+ & -) are provided for use when used with output modules and can also be used with input modules for clarity, even though the attached IDC's are polarity insensitive.

8 Chan. Discrete Term. Panel Part No 8800-STP-08IO **Control Platform:** FB-FirePAC on the 1756 ControlLogix Platform Designed for use with the ControlLogix 1756-IB16D Input Module 1756-OB16D Output Module **Software Compatibility:** Not Applicable **Device Configuration:** None	**Operating voltage:** 18–30 VDC **Communication protocols:** None **Current (24 vdc):** This module is "passive" and current is determined by attached I/O module. **Field Wiring Support:** From 24 AWG up to 10 AWG	**EMI/RFI compatibility:** Not Applicable, No active electronic components **Temperature range:** Max. continuous operating 158°F (70°C) Min. continuous operating -4°F (-20° C) (no condensation/icing) Storage -40°F to +176°F (—40°C to +80°C) **Humidity:** 5 to 95% relative humidity (no condensation)	**Approvals:** Control Units and Accessories For Fire Alarm Systems [UL 864:2014 Ed. 10] **Location rating:** Class I, Div. 2, Groups B,C,D (Pending) 4.094 in (104 mm) Wide 3.634 in (92.3 mm) High 2.868 in (72.9 mm) (Deep) **Weight:** 8.0 oz (226.8g) Materials: ROHS compliant

Ordering information:

8800-STP-08IO   Standard Term. Panel, 8 Ch. Input/Output (Discrete)

Note:
The information in this data sheet is given in good faith and considered accurate at the time of printing, however, the company reserves the right to change specifications of products at any time without prior notice.