



MicroComm DXI

SPD-120 Switch Panel Driver

Description

The SPD-120 is the wall mount version of the Switch Panel Driver. It is used to connect manual switch panels and graphic annunciator panels to the DXI system I/O network.

Each switch panel driver can interface with 128 normally open switch contacts and 128 LED indicators.

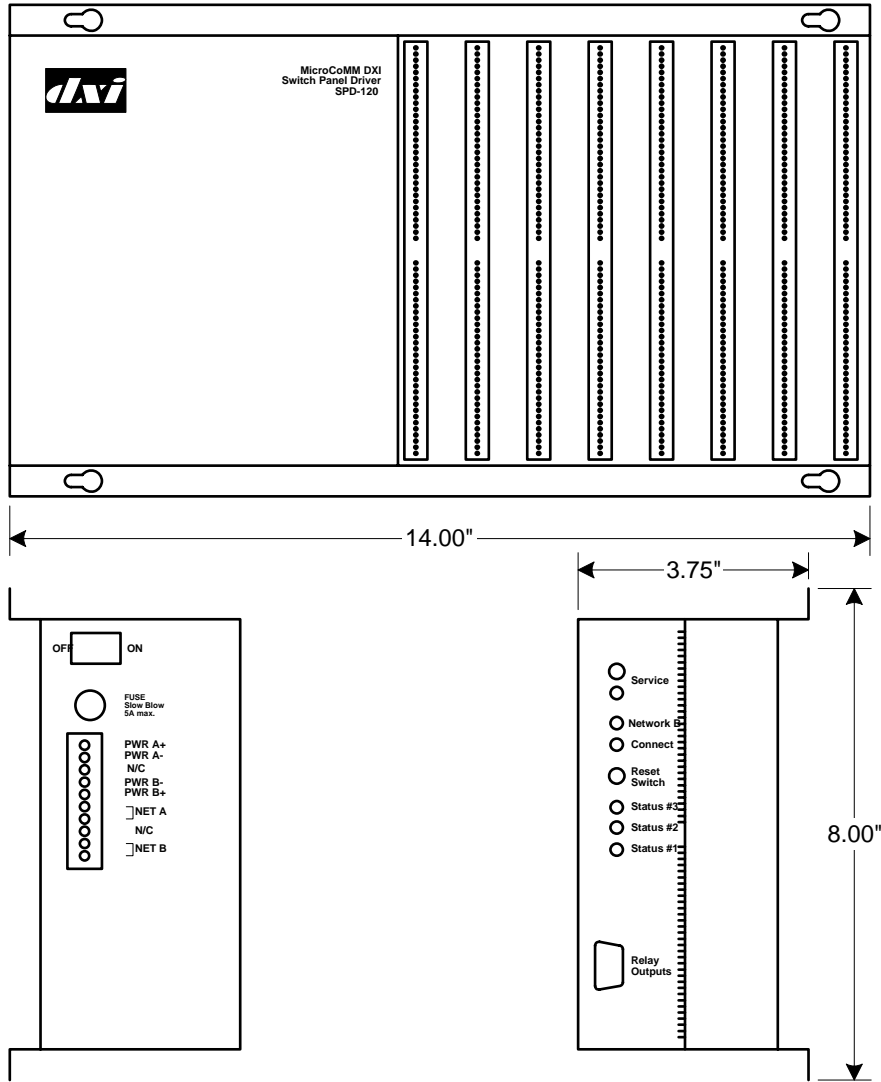
Features

- isolation diodes to ensure multiple switch closures are detected reliably
- fast switch scanning ensures switch presses are not missed
- 8 different flash patterns for LED indicators
- fast indicator scanning eliminates annoying flicker
- integrates with either a standard manual switch panel or a switch panel with its own driver electronics
- can drive lighted switches or separate switch and indicator LED
- 4 pin connection is convenient when driving lighted switches
- I/O wiring can be grouped on mass connectors for convenience
- on board current limit resistors for driving LED indicators
- high LED drive current for bright indicators
- 2 LEDs indicate network status
- 3 LEDs indicate operating status
- flash memory enables updating of firmware over the network
- redundant network connections are provided
- full functional test capabilities
- self test functions can be operated from the SAC computer
- individual connection to each switch allows easy replacement of failed switches
- very low switch current maximizes the electrical life of the switches
- can be connected or removed for service while the system is operating without disrupting the rest of the system
- fault protection on all I/O lines
- internal fuse protects circuitry



Specifications

Physical	8" H x 14" W x 3.75" D (203 x 356 x 95 mm)
Environmental	
Operating Temperature	32 to 122 °F (0 to 50 °C)
Storage Temperature	-40 to 158 °F (-40 to 70 °C)
Humidity	0 to 95 % non-condensing
Power Supply	12 Vdc \pm 10% @ 0.5 A max or 24 Vdc +10% -40% @ 0.25 A
I/O Capacity	128 lighted switches
Field Connections	
network and power switch panel	depluggable screw terminal blocks 2 pin MTA-100 for each switch or LED; or 4 pin MTA-100 can be used for lighted switches
LED Current	30 mA max
Standards	FCC Part 15, UL, CSA



Ordering Information

- Part number SPD-120-A
- A power supply options
 - 1 12 Vdc
 - 2 24 Vdc

