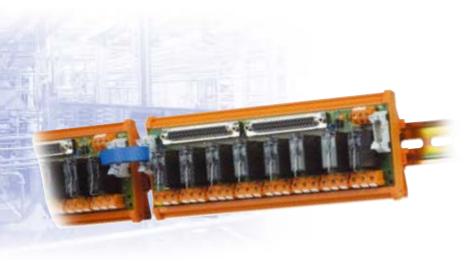
8-channel relay output board





PX 8500

Cascadable to 16/24/32 relays

8 relays on sockets

DIN-rail mounting

30 VDC - 277 VAC

300 W - 2500 VA

10 A

The ADDIVARIOUS PX 8500 is an external 8-channel relay board for the connection of digital output boards. It can be cascaded in 16, 24 and 32 relays and is intended for mounting on DIN supporting rails. The board provides a convenient interface between an industrial process and the SUB-D connectors on ADDI-DATA boards.

The change-over contacts of the relay are controlled through 24 V signals. The 24 V voltage supply is protected through varistors and transil diodes.

The board is intended for the use with 220 V supply. The creeping distance (acc. to DIN VDE0110) and the connector cross sections allows high-power switching (up to 2,500 VA).

The board has a female SUB-D connector for connecting an ADDI-DATA digital 24 V output board through a standard I/O cable ST010. The red LEDs display the state of the relays (open/closed). A green LED displays the ON/OFF of the operating voltage.

The 37-pin cable shielded can be grounded on both sides for the protection against high-frequency EMI.

Features

- Relay output board with 8 relays, cascadable in 16, 24 and 32 relays
- Max. switching voltage: 30 VDC/277 VAC
- Max. switching current: 10 A
- All terminals intended for large conductor cross sections up to 2.5 mm²
- Operating voltage display through green LED
- Relay state display through red LED
- Relays mounted on sockets
- High switching capacity
- Long-lasting life

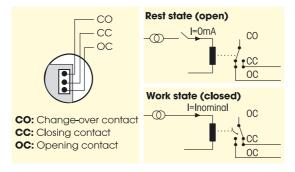
Safety features

- Overvoltage protection of the 24 V supply voltage through varistors and transil diodes
- Contact protection of the relays through varistors (Option Vt)
- 4 mm creeping distance between change-over, closer and opening contact
- 6 mm creeping distance between change-over contact and closer of adjoining relay
- Free-wheeling diode in the coil circuit
- With housing for mounting on a standard DIN rail, (option G)
- Operating safety tested according to the low-voltage directive: 73/23/EEC

Applications

- Industrial digital I/O control
- Automatic test equipment
- External high power relay control
- Alarm monitoring
- Test automation
- Alarm monitoring
- Digital monitoring
- ON/OFF monitoring of motors, lights ...
- ...

Function principle of the relays



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8-channel relay output board



PX 8500

Specifications

Noise immunity test level Electric strength of the relays 1000 Veff At open contact: Contact coil: 5000 Veff Isolation structure of the board according to VDE0110: Group C/250VAC/300VAC **Contact side** Type of contacts: 8 change-over contacts Max. switching voltage: 30 VDC - 277 VAC Max. switching capacity: 300 W - 2500 VA Max. switching current: 10 A <100 mW Contact resistance: Response time: 15 ms Release time: 5 ms Mechanical life: 5,000,000 operations Operating time at max.

100,000 operations

switching capacity: Control side

Operating voltage

Temperature range: Humidity:

Switching behaviour: Monostable
Operating voltage: 24 VAC
Operating efficiency: 533 mW
Switching frequ. at max. load: 20 switchings/minute

Threshold voltage at +20°C: 16.8 V Release voltage at +20°C: 2.4 V

Physical and environmental conditions

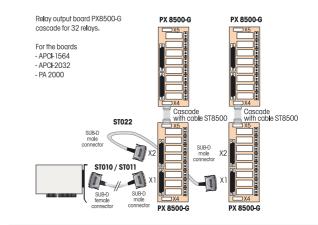
operating veilage.	· Z + V
Current consumption:	210 mA typ.
Dimensions (L x W x H):	210 x 68 x 42 mm
Dimensions (L x W x H):	With housing 212 x 87 x 72 mm
Connector:	2 x 37-pin SUB-D female connector
X1:	For the connection to the PC
X2:	For cascading the PX 8500 in max. 32 relays,
	for example for the digital output board
	PA 2000. In this case digital output signal 1
	corresponds to the 24 V control signal of the

+ 24 \/

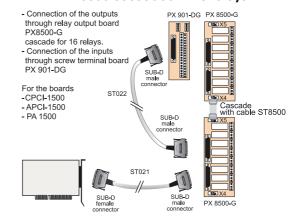
relay 1, output 2 to relay 2, etc ... 0-70°C 30-95 %



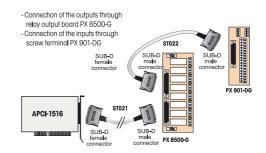
PX 8500 cascaded in 32 relays



PX 8500 cascaded in 16 relays



Connection example for the board APCI-1516



ORDERING INFORMATION

ADDIVARIOUS PX 8500

8-channel relay output board. Incl. technical description

PX 8500: Basic board with 8 relays

PX 8500-G: with housing for mounting on DIN rail

PX 8500-Vt: PX 8500 with varistors

PX 8500-VtG: PX 8500 with varistors and housing for

mounting on DIN rail

Connection

\$78500: Ribbon cable for cascading the board to

16, 24 or 32 relays

ST021: Standard round cable, shielded, for connecting

the APCI-1500, PA 1500, APCI-1516

\$1022: Standard round cable, shielded, for cascading

two PX 8500

\$7010: Standard round cable, shielded, twisted pairs, 2 m,

for connecting the PA 2000, APCI-2032, APCI-1564

ST011: Same as ST010, 5 m

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