2010-2-PIB

Addressable fire panel accessory, Peripherals Interface Board

Overview

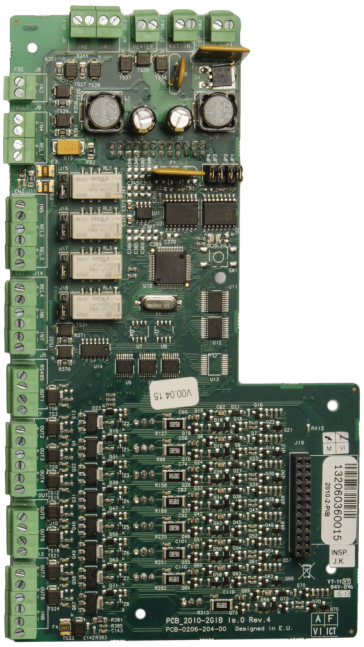
The 2010-2-PIB Peripherals Interface Board is an accessory of the small to medium size intelligent addressable life safety control systems. In total there are 4 variants of this board. The 2010-2-PIB is the most extended variant of the range and provides ways to interface other electronic equipment on site.

Functionality

The 2010-2-PIB Peripherals Interface Board provides eight inputs and outputs and four relay outputs for compatible control panels. The board is designed to support German marketplace requirements in control panels operating in VdS 2540 mode and provides an interface to the IFAM System 3000 network, fire brigade equipment, and other regional control and indicating equipment and devices. The board can be powered from the control panel or from an external power supply, providing 24 VDC to each of the supervised outputs. Inputs and outputs (excluding relay outputs) are supervised for short circuit and open circuit faults.

Mounting & connections

The board can be plugged directly on the front of the main board inside the big size control panel variants on top of the new release 3 chassis. No additional wiring is required. You can use the pluggable connectors to make your connections to the field wiring. Connect an external power supply to the board directly to reduce the load of your system.



Details

- 8 supervised inputs
- 8 supervised outputs
- 4 relay outputs
- Option to externally power
- Interface to the IFAM System 3000 network
- Operating in VdS 2540 mode
- Pluggable connectors

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Technical specifications

General

Compatibility	Release 3 hardware / firmware
Maximum system capacity (device count)	1 to 32, more than 160K, up to 120K, up to 128, up to 160K, up to 20K, up to 256, up to 4096, up to 512, up to 60K, up to 64, up to 96
Network size (nodes)	1 to 32, mere end 128, up to 128, up to 64

Electrical

Power supply type	VDC
Operating voltage	24 VDC
Current consumption	40 mA max.(standby) 4050 mA max. (activated)

Zone

Maximum zone capacity	1 to 64, more than 1024, up to 1024, up to 256

Output

Output type and rating	500 mA at 25°C (activated)

Physical

Form factor	Stor
Physical dimensions	105 x 192 mm (W x H)
Net weight	164 g
Shipping weight	240 g
Mounting type	I kabinettet

Environmental

Operating temperature	+5 to +40°C
Storage temperature	-20 to +50°C
Relative humidity	10 to 95% noncondensing

Regulatory

Compliancy	CE, REACH, RoHS 3, WEEE
Certification	CPR
Standards	EN54-2, EN54-13

Input activation (VdS)

Open circuit	>3.9 kOhm
Quiescent	2.2 kOhm to 3.3 kOhm
Activated	60.2 Ohm to 1.7 kOhm
Short circuit	<60.2 Ohm

Input activation (standard)

Open circuit	>20.2 kOhm
Quiescent	15 kOhm
Activated	60.2 Ohm to 8 kOhm
Short circuit	<60.2 Ohm

End-of-line termination

Input (VdS)	2.2 kOhm to 3.3 kOhm resistor (FSD, SST,EMZ)
Input (typical)	EOL 15 kOhm, 1/4 W resistor (FSE, ÜE, FAULT, configurable)
Output (typical)	EOL 15 kOhm, 1/4 W resistor
Output (EN 54-13)	EOL Class B (EN 54-13) device

Relay contact rating

	2 A at 30 VDC

3.3 kOhm / 680 Ohm switched relay output activation

Activated	560 Ohm
Not activated	3.3 kOhm

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Last updated on 16 October 2026 - 11:08