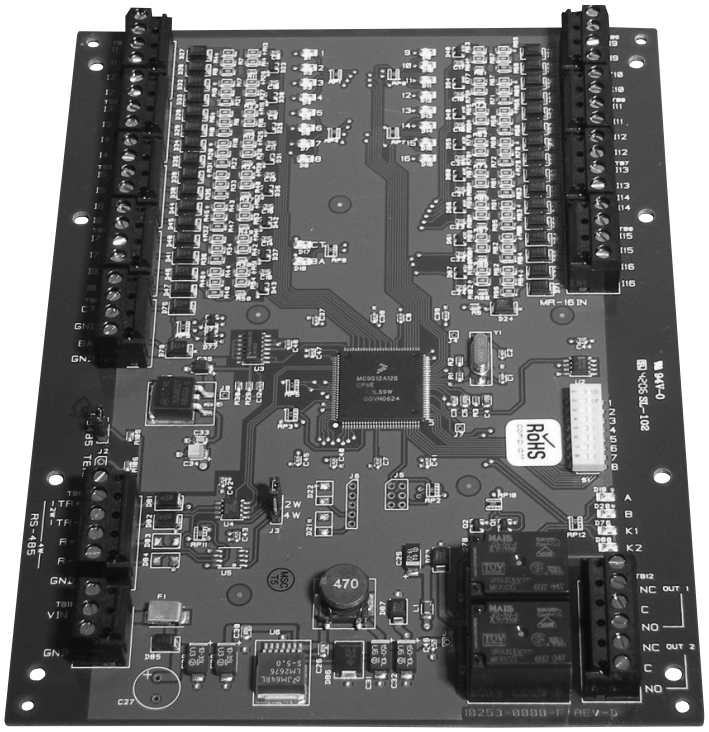
IDenticard™ SYSTEMS

The Input Board is an interface between any IDenticard® PremiSys™ controller and up to 16 input points. The board also incorporates two dedicated general-purpose input points and two control relays that can be assigned to provide alerts of power loss and enclosure tampering. The inputs all support normally open, normally closed, supervised or unsupervised circuits. The relays can be configured for fail-safe or fail-secure operation.



Features

- **Communications with controllers or MUXes** are two-wire RS-485.
- **The Input Board can be housed in a sturdy and optionally lockable enclosure** with its controller and/or other components.
- **The Input Board itself includes the following components:**
  - ~ Sixteen input points that can be used with supervision and can fulfill any input-point function: door-input points, request-to-exit points, motion-sensor inputs, etc.
  - ~ Two dedicated input points for monitoring power loss to the board and enclosure tampering
  - ~ Two relays configurable for normally open or normally closed operation
  - ~ A DIP switch for addressing the board and setting other parameters
  - ~ LEDs to indicate board and input status

PremiSys™ Input Board

PREM-BRDIN

PremiSys™ Input Board

Specifications

Board Certifications

UL: recognized to UL 294: Access Control System Units - component
CE: EN55022, EN50082-1, IEC801-2, IEC801-3 and IEC801-4

Dimensions and Weight

Board Width	8.0 inches (203 mm)
Board Height	6.0 inches (152 mm)
Board Depth	1.0 inch (25 mm)
Board Weight	9 ounces (250 g) (nominal)

Environmental Specifications

Temperature	32°F to 158°F (0°C to 70°C) operating -67°F to 185°F (-55°C to 85°C) storage
Relative Humidity	0 to 95% RH noncondensing

Power Specifications

CAUTION! This component is intended for use only in a Class 2, low-voltage circuit!

Input Board Input Voltage	12 VDC ± 10%, 350 mA peak, 300 mA nominal
Relay Rating (each of two relays)	5 A at 28 VDC, noninductive load

Wiring Specifications

Power to Input Board	One twisted pair, 18 AWG (0.823 mm^2)
RS-485 Connection to Controller or MUX	Twisted pairs, 22 AWG (0.325 mm^2), 120-ohm impedance with shield, Maximum cable length: 4000 feet (1219 meters) of wire, total copper, including drops
Connection to Relay-Controlled Devices	Use wire and gauge as required by load
Connection to Input-Point Devices	One twisted pair per input, 30 ohms maximum

Communications Specifications

To Controller or MUX	Two-wire RS-485, via TB1, 2400 to 38,400 bps

Access Control Specifications

Inputs – Assignable	Sixteen input points, end-of-line (EOL) resistors, 1K/2K ohm 1% watt standard
Inputs – Dedicated	Two unsupervised, dedicated input points for enclosure tamper and power loss
Relays	Two relays configurable for normally open or normally closed operation
Relay Contact Type	Form C
Relay Configuration	Single-pole double-throw (SPDT)

Indicators

Visible	Twenty-two red, single-color LEDs

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