

AX-MR50

Serial I/O controller

Authentic Mercury MR serial input/output (SIO) devices represent the secondary level in Mercury's distributed architecture. The devices provide flexibility to our OEM partners, ensuring they can choose the controller that best fits their needs.

Product at a glance

Features

- Multifacility code and reader technology support
- AES 128 bit data encryption
- UL 294 recognized
- Universal I/O device characterization



Benefits

- Easily connects to Schneider Electric™ Security System Controller
- Provides all I/O needed for single-door control
- Small footprint for versatility
- Supports Wiegand, clock and data, magnetic stripe, F2F, supervised F2F, OSDP, keypad, and biometrics reader technologies

The AX-MR50 is an economical single-card reader interface panel dedicated to individual door oversight and provides all of the I/O needed for controlling a single door. Each AX-MR50 connects one card reader, two general-purpose input monitor points and two control relays for access control and security monitoring through an AccessXpert security system controller.

The panel is easy to install and supports Wiegand, clock and data, magnetic stripe, F2F, supervised F2F, OSDP, keypad, and biometrics reader technologies. With its compact footprint and RS-485 connectivity, the AX-MR50 can be clustered or distributed depending on the installation environment.

An ideal choice for a compact and economical single-card reader panel, the high-performance AX-MR50 is a versatile, reliable interface for an individual door.



Application notes

The inputs and relays can be assigned to door-related functions or to general purpose I/O. The inputs support normally open, normally closed, supervised, and nonsupervised circuits. End-of-line resistance values are configurable, and the relays can be configured for fail-safe or fail-secure operation.

Hardware interface and card format settings are loaded through software commands.

When connected to an AccessXpert security system controller, the AX-MR50 can relate the activities of selected system devices to other devices within the system, generating actions and allowing activities to occur independently of the host. The AX-MR50 can also locally process access requests based on facility code verification, even when disconnected from an intelligent controller. Up to eight facility codes may be active in each AX-MR50.

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Electrical

Primary power 12 – 24 Vdc +/- 10%,
150 mA maximum
12 Vdc @ 110 mA nominal
24 Vdc @ 60 mA nominal

Communication RS-485, 2-wire, 4,000'
(twisted pair with shield, Belden 9841)

Reader port 1
Power: Input voltage pass-through
Data card/keypad clock/data, data-1/
Data-0 or RS-485

LED One-wire or two-wire bi-color LED support
Buzzer: Only with one-wire LED

Inputs

2 general purpose Programmable circuit type

1 dedicated Tamper

Output relays Relay 1: Form-C, 5 Amp 30 Vdc
Relay 2: Form-C, 1 Amp 30 Vdc

Dimensions 2.75" L x 4.25" W x 1.0" H,
(70 mm L x 108 mm W x 25.4 mm H)

Temperature -40 °F – 167 °F operational,
-67 °F – 185 °F storage

Humidity 0 to 95% RHNC

Standards UL 294 recognized
CE compliant
RoHS

