IDENTIV

HIRSCH
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Hirsch M64 Controller
Standalone Access Control System with ScramblePad

■ **HIGHLY SECURE**

Provides access control, high-security alarm monitoring, and relay control outputs

■ **COMPATIBLE**

Integrates with secure ScramblePad and interfaces with MATCH™ intelligent readers

■ **COMPLETE**

Becomes a standalone, enterprise-wide access control and security management solution when connected to Velocity

Identiv's Hirsch M64 Controllers have the same firmware functionality as Hirsch Mx Controllers. A range of models and expansion options provides a variety of access control, high-security alarm monitoring, relay control outputs, and programmable logic configurations to fit most applications. Each unit can be a complete standalone system or a distributed controller in a larger, multi-site enterprise system. This modular design and scalable architecture allows a system to start small and grow large. Readers may be used to initiate control actions, such as masking alarm inputs or activating equipment.

High-Security Reader Channel

The M6 Controller supports electrically isolated terminal blocks that provide communications and power to the ScramblePad, ScrambleProx, and MATCH interfaces. The communication path allows multi-drop connections for keypads or dual technology applications.User codes are digitized for transmission between a Hirsch ScramblePad or MATCH and the M64 Controller. Digital transmission allows longer wiring runs than are normally available with conventional access control reader technologies.

High-Security Alarm Monitoring

Hirsch uses very stable digitally processed analog inputs with 2% line supervision for high-security alarm monitoring. A line supervision module (DTLM, MELM, or SBMS) is located at the door contact, alarm sensor, request to exit (RQE), or similar device to establish this supervision. In lieu of shunting, which turns off supervision, Hirsch uses alarm masking for full-time supervision and reporting of line status — even during hours of authorized access. Conditions reported include: Alarm, Secure, RQE, Mask, Tamper Alarm, Tamper Secure, Short, Open, Noisy, and Input-Out-of-Spec.

Relay Control System

Relay outputs on M64 Controllers can be used for electric door locks and strikes, arming/disarming security systems, alarm annunciation, elevator floor control, HVAC control, lighting control, storage locker control, and many other equipment control applications. These relays may be activated by codes (via ScramblePad), cards (via MATCH and reader), time zones, alarms, or logic sequences linked to other relays. When used with a ScramblePad, M64 Controllers are ideal for after-hours tenant override systems. A history of who issued the override command is available for tenant billing or audit trails.

Reliability by Design

M64 Controllers are designed for high availability as complete systems solutions for global markets. Standby batteries for both memory and system operation are standard. The controller ships with an internal international power supply. All keypad/reader terminals and power circuits are fused. Each unit is configured in a heavy duty, NEMA style enclosure, with a high-security lock and tamper alarm.

Features and Benefits

- Controls up to 64 outputs via programmable logic

- Modular use of expansion boards

- High-security supervised alarm inputs (2% supervision) via expansion boards

- Standalone or networked, microprocessor-based general purpose relay outputs and dedicated alarm relay outputs

- MATCH encryption algorithm eliminates facility codes and provides high-security transmissions

- Downloadable firmware via flash memory

- Printer port and multiple reader technologies

Specifications

PARAMETER	HIRSCH MX-1 CONTROLLER
Communications	
Parallel PrinterPort	Standard
Keypad/Reader Port	16 device addresses
Command and Programming	Any address
Wiring	750 ft (160 m) with 22 gauge, 1800 ft (550 m) with 18 gauge. 2 pair, stranded, twisted, overall shield
Firmware	
Command and Control Module (CCM)	• Removable and upgradable • Time zones: 150 • Control zones: 256 • Holidays: Four 366 Day x 2 years • Daylight Savings Time adjustment
Memory	
Buffers	• 1500 events, 1500 alarms standard • 20,000 events, 2,000 alarms with MEB/BE • 20,000 events, 2,000 alarms with MEB/CB (reduces users by 20%) • Oldest discarded first, if full
Users	• 4000 standard • 132,000 with MEB/CB128
Battery Backup	30 days for code, setups, clock, and buffer
Electrical	
Keypad/Reader Power	• 1.0 Amp @24VDC each terminal, fused • MSP-64R: 2.15 Amp @24VDC, 6 terminals total • Powers ScramblePad and MATCH
Primary and Standby Power	• 90 - 130VAC, 50/60 Hz, fused • 180 - 260VAC, 50/60 Hz, fused
Power Supply	Uninterruptible
Standby Batteries	MSP-64R: 7 AH Included
Control Relays	2 Amp, Form C (MSP-8R requires REB8)

PARAMETER	HIRSCH MX-1 CONTROLLER
Alarm Relays	2 Amp, Form C
Physical	
Door	Door tamper switch
Lock	Medeco high security key lock
Enclosure	NEMA type with conduit knockouts and removable door
Dimensions	• MSP-64R: 22 x 20 x 6.25 in (55.9 x 51 x 15.9 cm) • Expansion Boards: 6 x 4.25 x .75 in (15.2 x 10.8 x 1.9 cm)
Shipping Weight	• MSP-64R: 60 lbs (27.2 kg) • Expansion Boards: 1 lb (.5 kg)
Operating Temperature Range	32° to 140° F (0° to 60° C)
Relative Humidity	0 to 90%, non-condensing

Table 1:

Ordering Information — Hirsch M64 Controller

MODEL	DESCRIPTION	COMMENTS
M64	Hirsch M64 Controller — 64 Relay — 115VAC	Modular controller. 4000 users. Includes 64 programmable relays, enclosure, power supply, battery, tamper switch, Medeco lock and SNIB2 OR SNIB3. Supports expansion boards (except REB8). Controls elevators, equipment, cabinets, etc. 115VAC*.

Note: Add "-230" to model number for 230VAC.

Table 2:

Ordering Information — Expansion Boards and Modem

MODEL	DESCRIPTION	COMMENTS
AEB8	Alarm Expansion Board — 8 Inputs	Adds 8 additional high security alarm inputs. Velocity supports up to 4 boards in Mx, M2, M8, MSP, M64 and up to 2 boards in M16. Each input requires appropriate Line Module. Features removable connectors. UL Listed. CE.
MEB/CB128	Memory Expansion Board — CODE Expansion of 128,000 with Buffer Option	Expands CODE memory by 128,000 (from 4000 to 132,000)