

EK9i

EK9i Keypad-Reader Interface Unit



EK9i is designed to replace the combination of EK9S and ER504 into a single unit. Up to 8 units can be installed to EL5000 over a single RS485 transmission line. This is to reduce the cost of installing LCD keypad reader with RIU (such as ER504). It combines the LCD keypad, reader, as well as the I/O ports to drive a single door access and it can be plug & play onto any existing E-Bus network. This device may be deployed in situations where an area contains only one door and security is not a major concern.

Access control card readers, keypads, for readers with keypads that use standard Wiegand Data1/Data 0 or clock are supported. The EK9i employs 2 Wire RS-485 data communications. Lock, unlock and customer code functions, offline access modes are supported on all readers connected to the RIU. Each RIU supports up to 8 different card formats as well as issue codes for both magnetic and wiegand card formats.

The RIU provides a vital link between, Advanced Multi Door Controller System, and the card reader attached to the interface. As many as 8 RIU modules can be multidropped using RS-485 2 wire communication up to 1km per port away from the AMDC, Each RIU is individually addressed for increased reporting capabilities with Matrix V Access Control Software applications. The RIU includes 6 inputs that support normally open normally closed, supervised and non-supervised circuits. 2 output relays support failsafe or fail secure operations.

Features & Functionalities

- 12 VDC power supply
- Supports Data1/Data0, Clock/Data and Keypads
- Up to 7 different card formats
- Issue Code Support
- Door Contact Open or Closed, Supervised or non supervised
- Push Button Monitor
- Bi Color or 2 wire status LED support
- Reader Beeper control
- Support for offline reader access mode
- Elevator Control, support for 32 floors

EK9i

Model	EK9i
Manufacturer	ELID Sdn Bhd
Country of Origin	Malaysia
Microprocessor	16-bit MCU (MC9S12GC128) with 128K flash memory and 4K RAM
Bus Speed	25.8048 MHz
Communication	2 wires RS485 Interface (Data+, Data-)
Baud Rate	9600bps or 57600bps
Protocol	Peer-to-peer collision detection protocol (E-BUS)
LCD Display	16 by 1 line yellow-green screen without backlight or 16 by 2 lines blue screen with backlight
Keypad	3 by 4
Max. Doors Supported	1 Door

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Modes of Operation	Card, PIN, Card + PIN, Time Clock
Standalone Operation	Partial. Can store 10 card numbers to open door when main controller is down.
Status detection	Tamper, Battery and Alternating Current
Type of Reader Supported	Proximity (HID, EM, MiFare)
Max. Readers Supported	2 (one IN and one OUT)
Onboard Inputs / Outputs	6 Inputs, 2 Outputs
Operating Temperature	0°C to 60°C
Humidity	10% to 90% non-condensing
Power Requirements	12VDC 100mA excluding reader
Casing Dimensions	105 (L) x 80 (W) x 35 (D)
Casing Property	Heavy Duty PVC
Approximate Weight	400grams

