

LIM4 Door Controller for Card Access Control



Borer's LIM4 is a single door access controller for use in on-line access control applications. The **LIM4** provides full on-line and off-line validation and decision making capabilities at the point of entry.

It supports most third party card reader interfaces, including Wiegand, magnetic stripe (clock and data), bar code and Dallas iButton, as well as many proximity and biometric formats.

The **LIM4** was developed using 'clean design' principles to minimise device mass and reduce energy consumption. Unnecessary components have been eliminated.

This together with a low energy profile delivers a 'cleaner, leaner and greener' solution, reducing lifetime operating costs.

Benefits

- **'Plug and Play'** makes for faster installation and commissioning
- **Distributed intelligence** allows decisions to be made at the point of access
- **TCP/IP Network connection via Borer Bridge** enables a direct connection to the central management system and database
- **Very low energy consumption** leading to savings in cost of energy
- **Power over CAT5e** support eliminating the requirement for a power supply at every door, thereby reducing bespoke cabling, installation complexity and cost.

Part Number: 04-149

Features:

Dual database of cardholders and access rights held at every reader head, with fall back to the last known good database in the event of a data corruption or interruption during database download

Large integrated database with a total capacity of up to 120,000 cardholders / transactions

Two magnetically assisted Omron relays for energy efficient switching of electric release and local alarm / alarm shunt

Four supervised inputs for door monitor, request-to-exit, tamper and spare

Four state monitoring of inputs checking for short circuit, open circuit, normally open and normally closed

PIN keypad matrix interface

LCD display panel interface optional

Support for third party card readers including Wiegand, Clock and Data, Bar Code and Dallas iButton

Works with Borer Midspan Bridge technology which delivers power and data over a single CAT5e / 6 cable.

Technical Data

Installation	Borer LIM door access controller are housed in DIN rail mounted enclosures for ease of installation and maintenance
Enclosure Colour	Ivory
Power Supply	10 to 28V DC, 35mA @ 12V DC quiescent
Controller Dimensions / Weight	104 x 69 x 20mm / 96g
Controller Enclosure Dimensions /Weight	104 x 69 x 57mm / 123g
Environmental/Humidity Range	Interior / 5% to 85% non-condensing
Outputs	Relay (3A at 30V DC, NO and NC contacts)
Inputs	4 supervised (door monitor, request-to-exit, tamper and spare) digital inputs: - door contact, REX (request to exit) and tamper circuit.
Reader Head Outputs	Red LED and green LED, Hold
PIN	4 digit system generated random number or 4 digit user issued number
Reader Database	48 sets of reader rules, 16 scheduled holiday dates, from 16,000 to 64,000 cardholders / transactions, 14 timezones
Data Retention Without Power	10 years
Network Connections	Controller Area Network, ISO 11898 standard for serial data communications
Cable Type	CAT 5e / 6 cable
Transmission Protocol	CSMA-CA (Carrier Sense Multiple Access with Collision Avoidance)
Data Rate	Autosensing : - 50, 125 or 250kbps
Operating Temperature Range	-13 to 140 F (-25 to 60 C)
Card Access Reader Technology	Support for a wide range of card access reader technologies including Wiegand, magnetic stripe, Dallas 'iButton', bar code and many proximity formats including HID, Indalla, Mifare, Legic, iClass, EM, Hitag, etc.
Door Monitoring	Access made, access not made, door forced, door unsecure, egress made (using handle or REX)

