CEM SYSTEMS

DCM150

Ethernet Input Output Controller

FEATURES

OVERVIEW

The DCM 150 (Door Control Module) is a low cost, two-door controller designed to interface third-party read heads with the CEM range of access control systems.

Acting as a wiring concentrator for up to two doors it allows local door furniture and read heads to be wired to a single point near the door and remotely connected, via CAT5 or Belden 8723 cable, to a CEM intelligent controller such as webEntry™ or a S9000 type controller for use on AC2000 SE. Up to sixteen units can be multi-dropped from a single RS485 Communications line up to a distance of 1,200 Metres from the host controller.

The DCM 150 supports most third-party access control read heads conforming to the physical Wiegand/Mag Stripe (data/data, clock/data) interfaces covering a range of technologies from RF Proximity to Biometric devices. Customised solutions are also available using two high speed serial RS485/RS232 interfaces to support non-standard devices such as biometric, read/write smartcards and crypto modules.

The DCM 150 supports two door configurations. It can either be configured for two read heads on two separate doors, with optional Exit push buttons, or can be configured to support an Entry/Exit configuration for bi-directional control on a single door.

DCM 150

- Support for two doors

- Interfaces third party read heads to CEM intelligent controllers

- Reader communications via standard Wiegand or Mag Stripe interfaces

- Eight Supervised inputs (four available per door)

- Two Relays (normally opened or normally closed)

- Self resetting fuses – saves maintenance time

- Onboard LED - provides visual status

- Dedicated Tamper input

- Flash upgradeable on site

- Suitable for use with webEntry™ and AC2000 SE systems

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PRODUCT HIGHLIGHTS

Connect to existing read head technology

The DCM 150 is suitable for installations where customers want to connect existing read head technology to any of CEM's intelligent controller products like webEntry or the S9032/S9064 with AC2000 SE. Unlike the CEM range of card readers the DCM 150 does not provide local database support for off-line card validation.

Ease of Installation

Visual confirmation of board, relay and comms transmit/receive status is provided via LEDs allowing easy installation and simplifying the diagnostic process. An onboard LED provides visual alerts to help when a number of DCM's are banked in close proximity to one another.

High quality connectors simplify the installation process and allow simple drop in replacement in the event of hardware failure. Board configuration is achieved via a small number of jumpers and requires no specialist tools.

TECHNICAL SPECIFICATIONS

PHYSICAL

Size
- Board Only   180 x 120 x 20mm (7.1" x 4.7" x 0.8")
- Enclosure   460 x 250 x 90mm (18" x 10" x 3.5")

Weight
- Board Only 0.1Kg
- Enclosure 5.00kg

Housing   Wall mounting 1.2mm steel enclosure
Colour   Grey

Power
- Board Only:
- Voltage   11 – 15Vdc
- Current Consumption   300mA (excluding locks and heads)

Enclosure:
Voltage   220-230 VAC 50/60Hz.
Current Consumption   450mA (excluding locks and heads)
Backup Battery   Integral charging circuit provided with enclosure and space battery (Battery not supplied).

Environmental
- Temperature   -20° to 70°C (-4° to 158°F)
- Humidity   95% non condensing
LED Indicators   Power, Link to host, Comms Tx/Rx, Fault / Tamper, Lock and Relay Status

FUNCTIONALITY

Inputs
* Door Position
* Lock Status
* Exit Push Button
* General Purpose

Inputs continued   Break Glass Sense
Fire Alarm Sense
Power Fail
Tamper
Battery Low (reported internally)
Dedicated Power Fail Input
* = 4 state tamper protected inputs

Outputs   Two 12V or 24V open collector outputs limited to 1.5A
(Door Lock and External Sounder)
Two Relays rated at 35V@2A

Reader capacity   2 Weigand/Mag Stripe interfaces (data/data, clock/data)

Configuration   Operational parameters are downloaded from host computer.

COMMUNICATION INTERFACE

To Readers   Weigand/Mag Stripe interface (data/data, clock/data)
- Connection   2 part screw terminals
To System Host   RS485 multidrop cable runs using copper wire with maximum length of 1.2km without repeater
- Connection   2 part screw terminals

PRODUCT CODES

DCM/150/105   DCM 150 (Board Only)
DCM/150/101   DCM 150 (Includes enclosure, board & power supply/battery charger)

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