IDESCO
SECURE IDENTIFICATION

IM4001B, IM4003B, IM4110B

IM4000 Reader Modules

Idesco Microlog IM4000 series modules are designed for RFID applications where good performance, flexibility as well as inputs and outputs are required. Typical applications are access control, ticketing, factory automation and data collection, health care, recycling, asset marking and maintenance, transportation and materials handling.

This module and its software support are designed for OEM manufacturers who can use the module embedded into their own product. Simple design rules are available for customized antennas. The antenna can be single wire loop or constructed on a PCB.

An easy-to-use ASCII protocol is available for read and write commands. The modules are compatible with all existing Idesco Microlog R/O and R/W cards and tags.

High speed, full duplex communication with RF tags is well secured. The data transmitted to the tag is echoed back to the reader for verification.

The module has an internal switching power supply with wide input voltage range. A buffered I²C bus as well as programmable inputs and outputs are available for custom design interfacing.

SPECIFICATION

Read/write range	Up to 150 mm depending on the antenna
Serial interface	RS-232 and RS-485 or I2C
Input and outputs	Three led outputs (RS-232 compatible)
Power supply	8...30VDC/3.5 W, inactive 0.6 W
Power on/off control	Off 0...1.5 V
Housing	Epoxy filled German silver box
Weight	IM4001 250g IM4003 170g IM4110 200g
Temperature range	Operating -25...+70C Storage -40...+85C
EMC	Meets CE requirements with the antenna diameter <110 mm

Teknologiantie 9 | FIN-90570 Oulu | Tel. +358 (0)8 551 4175 | Fax +358 (0)8 551 4176 | www.idesco.fi | e-mail. info@idesco.fi

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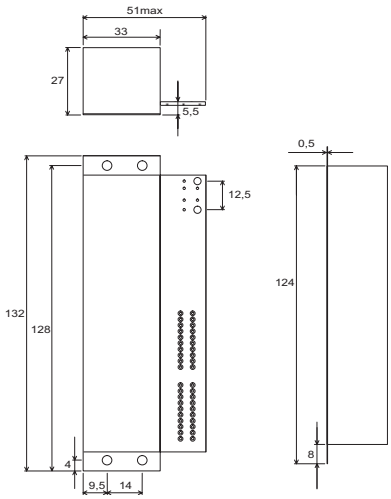
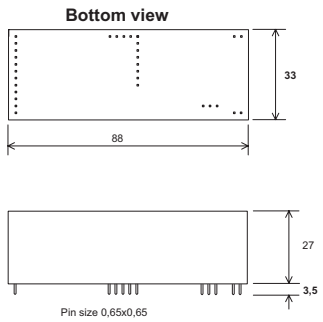
IM4000 Reader Modules

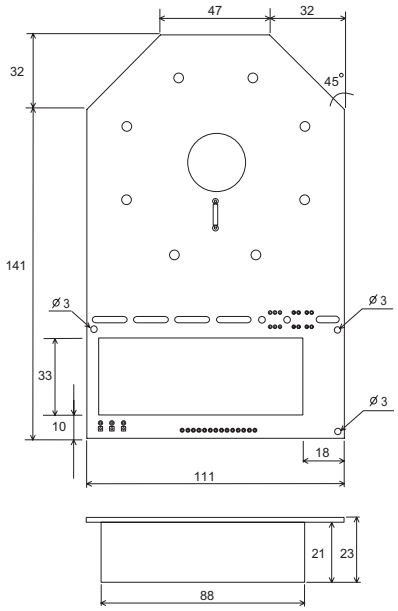
IM4001B



IM4003B



IM4110B



OTHER FEATURES

Interfacing	Easy to interface with serial line to PCs and PLCs and with a Wiegand (customized download software) interface. Buffered I2C bus allows very high speed communication to customized interface boards.
Three status led outputs	Outputs can be used as status light for read and write or other control outputs.
Download software	Standard C (KEIL v.4.01) or MCS51 assembly can be used for programming up to 28 kByte customized application to be downloaded into EEPROM. Easy-to-use read/write subroutines are available for the programmer.
Protocols	Idesco ASCII protocol can be used for communication. Customized protocols can be programmed by the user.

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