

This manual is intended as a quick reference installation guide. Please refer to the manufacturer's control panel installation manual for detailed system information.

GENERAL DESCRIPTION

The VELOX module series is a family of microprocessor controlled interface devices permitting the monitoring and/or control of auxiliary devices. The VELOX digital communication protocol utilised by the monitoring control panel provides for high rates of information exchange in combination with particular features that ensure fast and secure responses. A bi-colour LED indicator (red/green), one per single channel, is activated by the control panel. The modules are powered by the loop.

SHORT CIRCUIT ISOLATOR

All VELOX series modules are provided with short-circuit monitoring isolators installed on the intelligent loop circuitry and can be activated by the control panel.

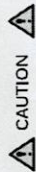
TECHNICAL SPECIFICATIONS

Loop's voltage range *	from 18 V (min) to 40 V (max)
Average current consumption	120 uA (@ 24 V)
LED's current consumption	6 mA (@ 24 V)
Operating temperature range	from -30°C (min) to +70°C (max)
Humidity	95% RH (no condensation)
Dimensions	87x87x32 mm (w/o gang box)
Weight	200 grams
Maximum wire gauge	2.5 mm ²

* Products operate down to 15V, but without LED indication



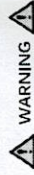
Disconnect loop power before installing the modules.



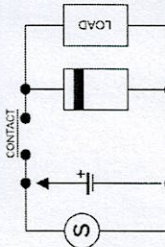
Observe precautions when handling and making connections.

INSTALLATION

The VELOX modules must be used in combination with VELOX control panels employing the VELOX communication protocol for monitoring and control. The location of modules should follow recognised national or international installation codes of practice. Connections to the terminals are polarity sensitive thus, please, check them by referring to the wiring diagrams and tables for each model. Modules are provided with female terminal blocks, a 27 Kohn end of line resistor and a 10 Kohn alarm resistor, depending on the model.



When switching an inductive load, in order to protect the module from surges caused by counter-EMF, it is important to protect the relay contacts. The customer should connect Diode (part number 1N4004) (DC applications only) or a varistor (AC or DC applications) should be connected in parallel to the load.



SETTING THE ADDRESS

Modules can be addressed by using a special hand-held programming unit (Hand held programmer) or they can be auto-addressed by the control panel after they have been installed (the implementation of the auto-addressing feature depends on the control panel's manufacturer). Addresses may be selected over the range from 1 to 240, although, of course, each device on the loop must have a unique address.

- Connect the programmer to the module using the proper cable (refer to the Hand held programmer instruction manual).
- After installing all modules and other loop devices, apply power to the loop in accordance with the panel's installation instructions. The input / output module holds two addresses. The address assigned by the Hand held programmer always relates to the input channel, the output channel is automatically assigned the consecutive address.

DEVICE'S MOUNTING

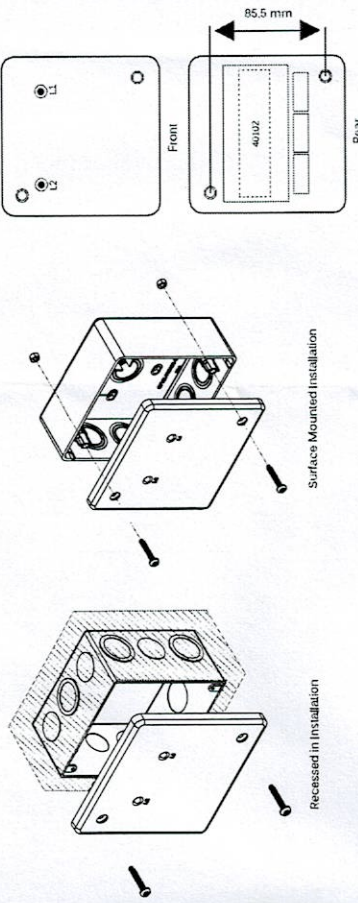
According to local electrical regulations, mount securely to a deep single gang box using the provided screws.

MAINTENANCE

Test the modules periodically according to local codes of practice. Those devices contain no serviceable part, so, should a fault develop, return them to your system supplier for exchange or disposal, according to warranty conditions.

Manufactured By:
ATEIS Middle East FZCO, LIU No. 11 Dubai Silicon Oasis • P.O. Box. 293640 Dubai United Arab Emirates

MODULE VIEW & INSTALLATION



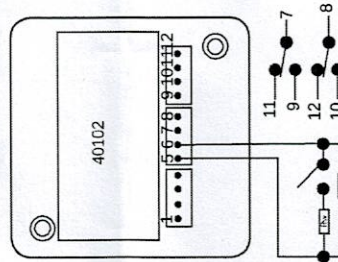
Addressable single supervised input and dual form c relay output module

The 40102 input and output free contacts module combine in a single device supervised input and relay output characteristics.

End of line resistor (Red): 27 Kohn.

Alarm resistor (Rw): 10 Kohn.

Relay contact ratings are: 30 Vdc, 2 A or 30 Vac, 2 A (resistive load).



Terminal	Description
1	Loop line IN (+)
2	Loop line OUT (+)
3	Loop line IN (-)
4	Loop line OUT (-)
5	Input (+)
6	Input (-)
7	Common 1
8	Common 2
9	Normally open 1
10	Normally open 2
11	Normally closed 1
12	Normally closed 2

The 40102 module consumes two addresses

WARNINGS AND LIMITATIONS

Our devices use high quality electronic components and plastic materials that are highly resistant to environmental deterioration. However, after 10 years of continuous operation, it is advisable to replace the devices in order to minimize the risk of reduced performance caused by external factors. Ensure that these modules are only used with compatible control panels. Detection systems must be checked, serviced and maintained on a regular basis to confirm correct operation. Refer to and follow national codes of practice and other internationally recognized life engineering standards. Appropriate risk assessment should be carried out initially to determine correct design criteria and updated periodically.

WARRANTY

All devices are supplied with the benefit of a limited 5 year warranty relating to faulty materials or manufacturing defects, effective from the production date indicated on each product. This warranty is invalidated by mechanical or electrical damage caused in the field by incorrect handling or usage. Product must be returned via your authorized supplier for repair or replacement together with full information on any problem identified. Full details on our warranty and products returns policy can be obtained upon request.



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0632-CPR-F0055

EN 54-18:2005
Fire alarm systems
EN 54-17:2005
Fire alarm systems
300V circuit isolator
Technical Data: see
TDS-40xx-x-0001 held by
the manufacturer.