

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.

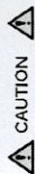
SHORT CIRCUIT ISOLATOR

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.

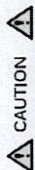
TECHNICAL SPECIFICATIONS

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

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



Disconnect loop power before installing the modules.



Electrostatic Sensitive Device. 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 KOhm end of line resistor and a 10 KOhm alarm resistor, depending on the model.

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.

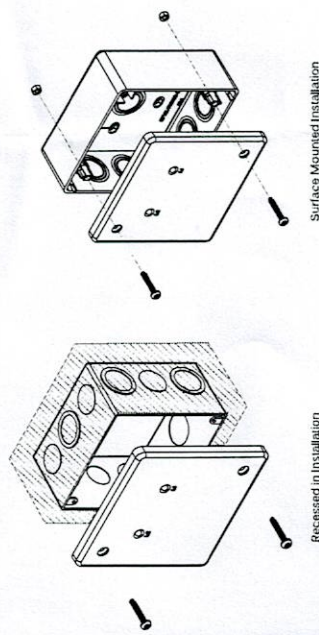
DEVICE'S MOUNTING

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.

MODULE VIEW & INSTALLATION

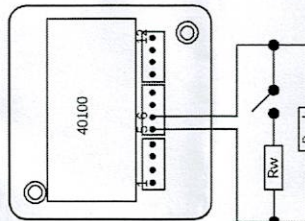


Addressable single supervised input module

The 40100 single channel supervised input module provides monitoring of normally open contact fire alarm and supervisory devices.

End of line resistor (Res): 27 KOhm.

Alarm resistor (Rw): 10 KOhm.



Terminal	Description
1	Loop line IN (+)
2	Loop line OUT (-)
3	Loop line IN (-)
4	Loop line OUT (+)
5	Input (+)
6	Input (-)
7	Not used
8	Not used
9	Not used
10	Not used
11	Not used
12	Not used

The 40100 module consumes one address

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 practices and other internationally recognized fire 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. The warranty is invalidated by incorrect installation, misuse, modification, or damage caused by fire, flood, or other external factors. Please refer to 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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EN 54-18:2005
Fire detection and fire
alarm systems
EN 54-17:2005
Alarm circuit isolator
40100
Technical Data: see
TDS-4024x-4001 held by
the manufacturer.