

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 module series is a family of microprocessor controlled interface devices permitting the monitoring and/or control of auxiliary devices. The 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 ISOLATORS

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

INSTALLATION

The modules must be used in combination with compatible control panels employing the 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.

COMMON TECHNICAL SPECIFICATIONS

Loop's voltage range	From 15 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	87 x 87 x 32 mm (w/o gang box)
Weight	200 grams
Maximum wire gauge	2.5 mm ²

CAUTION

Disconnect loop power before installing the modules.

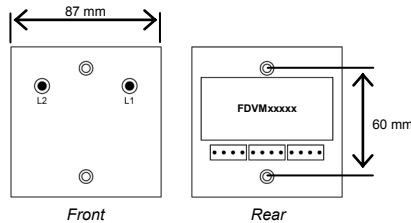


CAUTION

Electrostatic Sensitive Device.

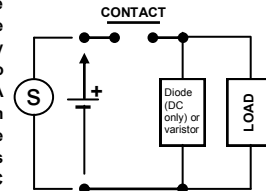
Observe precautions when handling and making connections.

Module view



WARNING

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. A diode with a reverse breakdown voltage of at least ten times the circuit voltage (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 (FDP100).

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 FDP100 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 FDP100 always relates to the input channel; the output channel is automatically assigned the consecutive address.

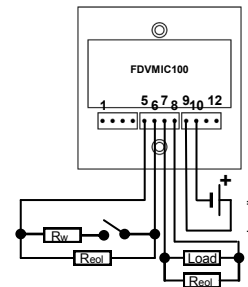
DEVICE'S MOUNTING

According to local electrical regulations, mount securely to a 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.

INPUT / OUTPUT supervised module



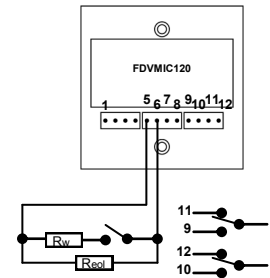
The FDVMIC100 input and output supervised module combine in a single device supervised input and output characteristics.

End of line resistor (R_{ew}):27 Kohm.
Alarm resistor (R_w):10 Kohm.

Relay contact ratings are:
30 V_{ac}, 2 A or 30 V_{ac}, 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	Load (+)
8	Load (-)
9	Load power (+)
10	Load power (-)
11	Not used
12	Not used

INPUT / OUTPUT free contacts module



The FDVMIC120 input and output free contacts module combine in a single device supervised input and relay output characteristics.

End of line resistor (R_{ew}):27 Kohm.
Alarm resistor (R_w):10 Kohm.

Relay contact ratings are:
30 V_{ac}, 2 A or 30 V_{ac}, 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



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Supervised I/O module - FDVMIC100
Form C contacts I/O module - FDVMIC120