

INSTALLATION INSTRUCTIONS FOR THE FDVMDI100 INPUT DIN RAIL MODULE, FDVMDC100,

FDVMDC120 OUTPUT DIN RAIL MODULES, FDVMDIC100 AND FDVMDIC120 INPUT / OUTPUT DIN RAIL MODULES

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 DIN rail 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. LED indicators (red, green, yellow) are activated by the control panel. The DIN rail modules are powered by the loop.

SHORT CIRCUIT ISOLATORS

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

INSTALLATION

The DIN rail modules must be use with compatible control panels en munication protocol for monitorin location of DIN rail modules sho nised national or international ins practice. Connections to the tern sensitive thus, please, check the the wiring diagrams and tables fo rail Modules are provided with blocks, a 27 Kohm end of line Kohm alarm resistor, depending o

he DIN rail modules must be used in combination ith compatible control panels employing the com- unication protocol for monitoring and control. The ocation of DIN rail modules should follow recog- ised national or international installation codes of ractice. Connections to the terminals are polarity ensitive thus, please, check them by referring to ne wiring diagrams and tables for each model. DIN all Modules are provided with female terminal locks, a 27 Kohm end of line resistor and a 10 ohm alarm resistor, depending on the model.	Loop's voltage range Average current consumption LED's current consumption Operating temperature range Humidity Dimensions Weight Maximum wire gauge	From 15 V (min) to 40 V (max) 120 uA (@ 24 V) 6 mA (@ 24 V) From -30 °C (min) to +70 °C (max) 95% RH (no condensation) 79 x 90,5 x 25 mm 80 grams 2.5 mm ²	
CAUTION Disconnect loop power before installing the DIN rail modules.	Electrostatic Observe precautions when h	UTION Sensitive Device. Iandling and making connections.	
B B B B FDVMDxxxx	WARNING When switching an induction load, in order to protect the D rail module from surges cause by counter-EMF, it is important protect the relay contacts. diode with a reverse breakdow voltage of at least ten times the circuit voltage (DC application only) or a varistor (AC or D applications) should be co- nected in parallel to the load.	re CONTACT N ad to A S T Uiode (Diode (Only) or varistor T O Contact (Diode (Only) or varistor (Only) or (Only) o	

COMMON TECHNICAL SPECIFICATIONS

SETTING THE ADDRESS

DIN rail 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 DIN rail modules and other loop devices, apply power to the loop in accordance with the panel's installation instructions.

The input / output DIN rail 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 firmly the device onto the destination supporting DIN rail.

MAINTENANCE

Test the DIN rail 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.

nodule			Terminal	Description
		1	Loop line IN (+)	Loop positive input
6 12	The FDVMDI100 single channel supervised input DIN rail module provides monitoring of normally open contact fire alarm and supervisory devices. End of line resistor (R_{ed}):27 Kohm. Alarm resistor (R_w):10 Kohm.	2	Loop line OUT (+)	Loop positive output
		3	Loop line IN (-)	Loop negative input
		4	Loop line OUT (-)	Loop negative output
		5	Input (+)	Supervised input (+)
		6	Input (-)	Supervised input (-)
		7	Not used	
		8	Not used	
		9	Not used	
●`● ` ●		10	Not used	
ol		11	Not used	

12

Not used



INPUT r

		Terminal	Description		
	1	Loop line IN (+)	Loop positive input		
ngle channel I rail module closing con- ices such as	2	Loop line OUT (+)	Loop positive output		
	3	Loop line IN (-)	Loop negative input		
	4	Loop line OUT (-)	Loop negative output		
	5	Not used			
	6	Not used			
ol):27 Kohm.	7	Load (+)	Supervised output (+)		
	8	Load (-)	Supervised output (-)		
are: 2 A	9	Load power (+)	Load's power supply (+)		
	10	Load power (-)	Load's power supply (-)		
	11	Not used			
	12	Not used			

DUTPUT free contacts module			
1 7 8 910 ¹¹ 12	The FDVMDC relay output provides pole tacts for the devices such a Relay contact 30 V/m 2 A or		

FDVMDC120 single cha output DIN rail mo ides pole changeover for the control of aux es such as fire shutters.

y contact ratings are: /_{dc} , 2 A or 30 V_{ac} , 2 A (resistive load).

		Terminal	Description
annel	1	Loop line IN (+)	Loop positive input
	2	Loop line OUT (+)	Loop positive output
	3	Loop line IN (-)	Loop negative input
con-	4	Loop line OUT (-)	Loop negative output
kiliary	5	Not used	
	6	Not used	
	7	Common 1	Relay contact terminal
	8	Common 2	Relay contact terminal
	9	Normally open 1	Relay contact terminal
	10	Normally open 2	Relay contact terminal
	11	Normally closed 1	Relay contact terminal
	12	Normally closed 2	Relay contact terminal

Continues the following page

INPUT / OUTPUT supervised module



upervised module			Terminal	Description	
	•	1	Loop line IN (+)	Loop positive input	
	The FDVMDIC100 input and output supervised DIN rail module com- bine in a single device supervised input and output characteristics.	2	Loop line OUT (+)	Loop positive output	
		3	Loop line IN (-)	Loop negative input	
		4	Loop line OUT (-)	Loop negative output	
		5	Input (+)	Supervised input (+)	
	End of line resistor (R):27 Kohm	6	Input (-)	Supervised input (-)	
	Alarm resistor (R _w):10 Kohm.	7	Load (+)	Supervised output (+)	
		8	Load (-)	Supervised output (-)	
	Relay contact ratings are:	9	Load power (+)	Load's power supply (+)	
	(resistive load).	10	Load power (-)	Load's power supply (-)	
		11	Not used		
		12	Not used		

INPUT / OUTPUT fr	INPUT / OUTPUT free contacts module		Terminal	Description	
		1	Loop line IN (+)	Loop positive input	
	The FDVMDIC120 input and output free contacts DIN rail module combine in a single device supervised input and relay output characteristics.	2	Loop line OUT (+)	Loop positive output	
Married American Street		3	Loop line IN (-)	Loop negative input	
1 5 6 7 8 9 10 11 9 7 12 12 8 12 8 10 12 8 8 10 12 8 8 12 8 8 10 12 8 8 10 10 8 10		4	Loop line OUT (-)	Loop negative output	
		5	Input (+)	Supervised input (+)	
	End of line resistor (R_{eol}):27 Kohm. Alarm resistor (R_w):10 Kohm.	6	Input (-)	Supervised input (-)	
		7	Common 1	Relay contact terminal	
		8	Common 2	Relay contact terminal	
	Relay contact ratings are: $30 V_{dc}$, 2 A or $30 V_{ac}$, 2 A (resistive load).	9	Normally open 1	Relay contact terminal	
		10	Normally open 2	Relay contact terminal	
		11	Normally closed 1	Relay contact terminal	
		12	Normally closed 2	Relay contact terminal	



Supervised output DIN rail module - FDVMDC100

Form C contacts output DIN rail module - FDVMDC120

Supervised I/O DIN rail module - FDVMDIC100

Form C contacts I/O DIN rail module - FDVMDIC120