

VSE 001

Fiber Optic Module

Publication version: VVSE1/EN M/A007

User manual



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1. General

External Fiber Optic Module VSE 001 is used to connect the RS-232 or TTL serial interface of VAMP protection relay series (200, 50 and 300) or of a VAMP 321 to a serial optical fiber interface. VSE 001 can be used for either a fiber optic loop or a fiber optic star connection.

Additionally this module can be used with a non-VAMP device, which has RS-232 or TTL serial interface, whenever a serial fiber optic interface is required.

2. Power supply

The power for the module is taken from pin 9 of the D-connector or from an external power supply interface. There is a screw terminal (X1, see figure 1) for connecting an external +9 – 12Vdc power supply.

3. Module interface to the VAMP relays or master device

The physical interface to the device is a 9-pin D-connector. The signal levels may be either TTL or RS-232.

The TTL/RS-232 interface of the modules is:

Pin number	TTL mode	RS-232 mode
1	-	-
2	RXD (in)	RXD (in)
3	TXD (out)	TXD (out)
4	RTS (in)	RTS (in)
5		
6		
7	GND	GND
8		
9	+8V (in)	+8V (in)

4. Fiber optic interface

The specifications of the plastic fiber interface are:

Connector	HP Versalink Snap-in connector
Cable diameter	1mm
Max. recommended cable length	30m
Transmitter/receiver components	HFBR-1522 / HFBR-2522 or equivalent

The specifications of the glass fiber interface are:

Connector	ST
Cable diameter	62.5/125 μ m
Max. recommended cable length	2000m
Transmitter/receiver components	HFBR-1414 / HFBR-2412 or equivalent

The fibre-optic interface module contains selections for echo/no-echo and light normally on/off functions; through the dip switch S1 (see Figure 1).

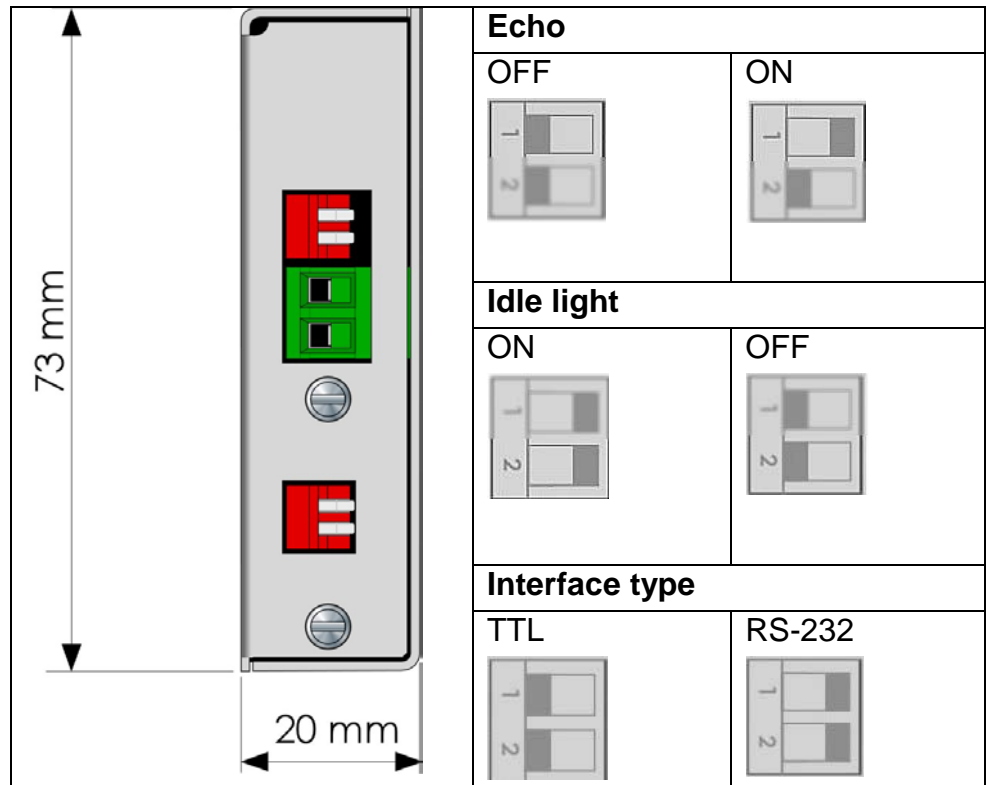


Figure 1. Dipswitch positions of VSE 001

5. Module layout

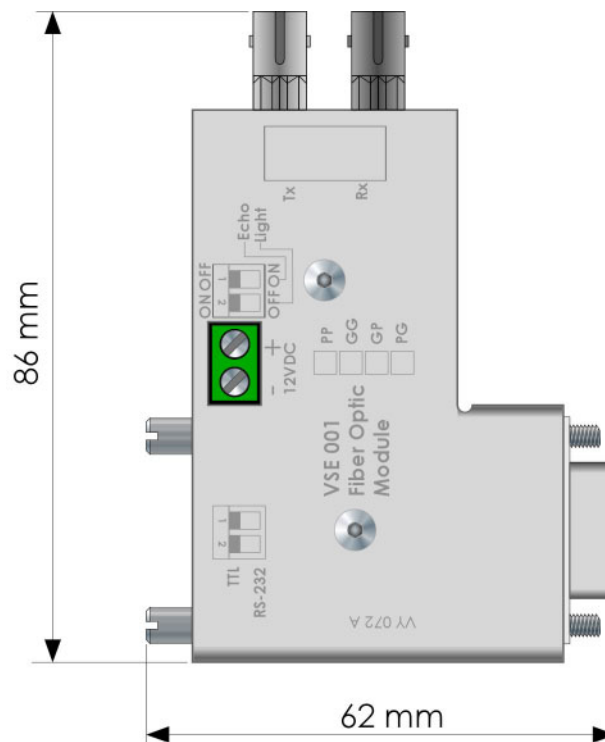


Figure 2. Component layout

6. Module mounting

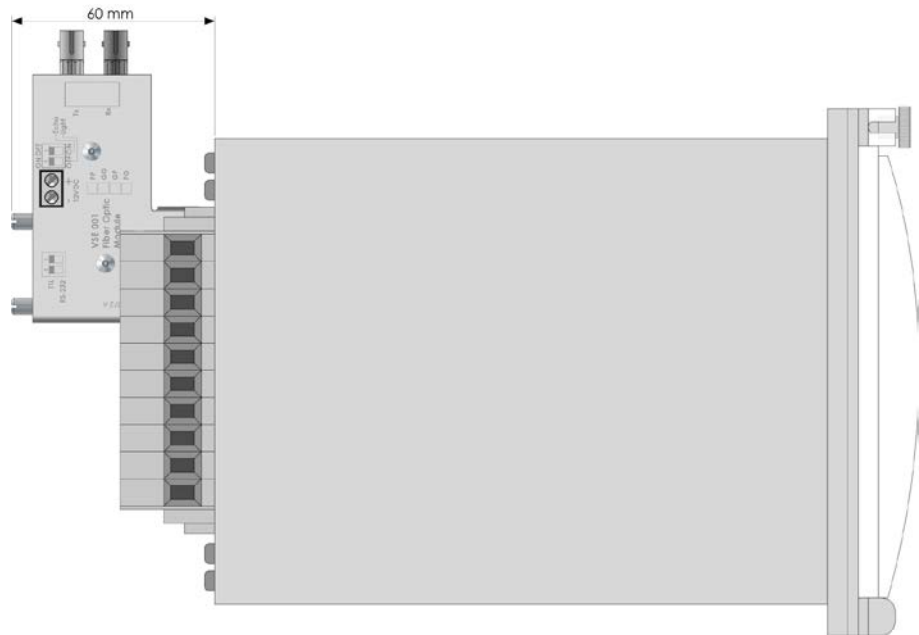


Figure 3. Mounting picture of module

7. Module connection cable

The module can be used with a PC, the required cable is described in figure 4. When used with a PC an external power supply is needed (e.g. type Phoenix Contact 100 – 240 AC / 10 – 15 DC/2, Order-No. 29 38 75 6).

PC serial interface		VSE 001	
Function	Pin number	Pin number	Function
CD (in)	1	1	-
RXD (in)	2	2	RXD (in)
TXD (out)	3	3	TXD (out)
DTR (out)	4	4	RTS (in)
GND	5	5	-
DSR (in)	6	6	-
RTS (out)	7	7	GND
CTS (in)	8	8	-
-	9	9	+8V (in)

Figure 4. PC interface cable

8. Port names in VAMP products

Every single serial communication port of a certain VAMP device has a different name in VAMPSET in order to be distinguished from the others. The following table shows the VAMPSET names of the ports of different VAMP devices to which VSE001 will be connected to.

Series / Model	Port name (VAMPSET)
50	Remote
200	Remote
300	COM 1 (for slot 6) COM 3 (for slot 9)
V321	COM 1 (for slot 10)* COM 1 (for slot 6)* COM 3 (for slot 9)

*Communication card on slot 6 and 10 are not available for the same device.

9. Ordering codes

VSE 001 PP	Fiber optic module with Plastic receiver and Plastic transmitter
VSE 001 GG	Fiber optic module with Glass receiver and Glass transmitter
VSE 001 GP	Fiber optic module with Glass receiver and Plastic transmitter
VSE 001 PG	Fiber optic module with Plastic receiver and Glass transmitter



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