

VSE 001

External fiber optic module

User manual

General

External Fiber Optic Module VSE 001 is used to connect VAMP protection relays to a fiber optic loop or a fiber optic star.

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

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.

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)

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 uM
- 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).

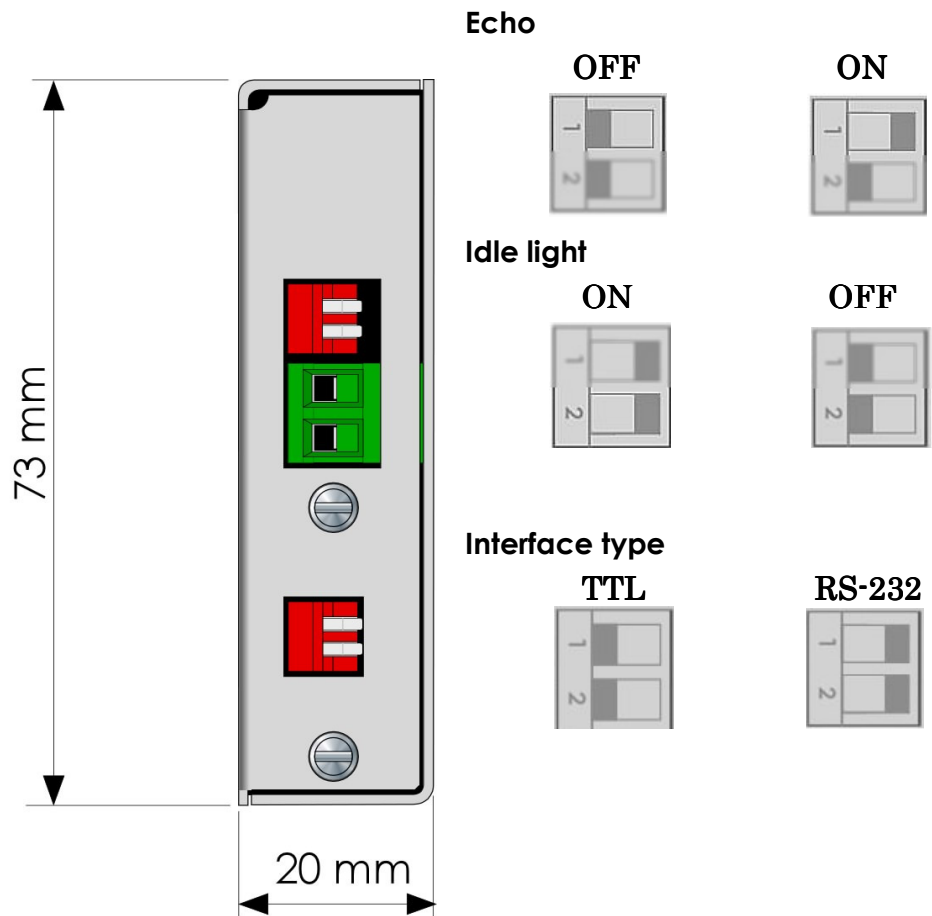


Figure 1. Dipswitch positions of VSE 001

Module layout

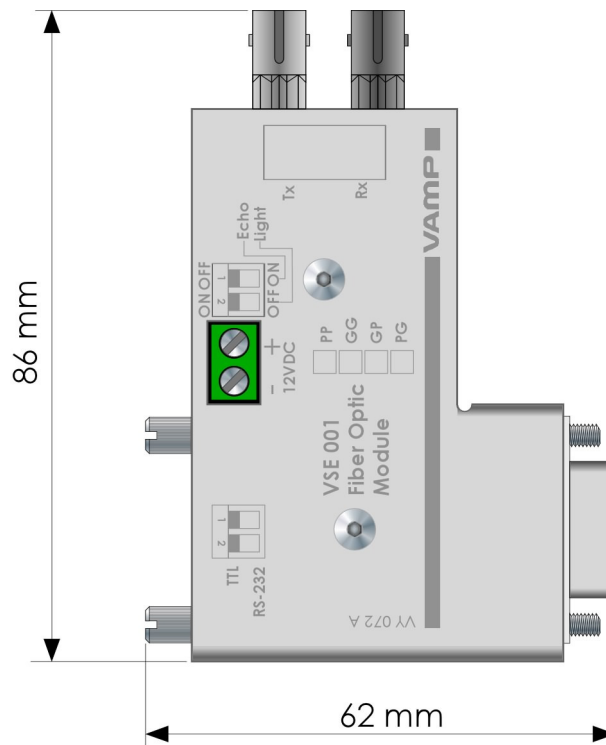


Figure 2. Component layout

Module mounting

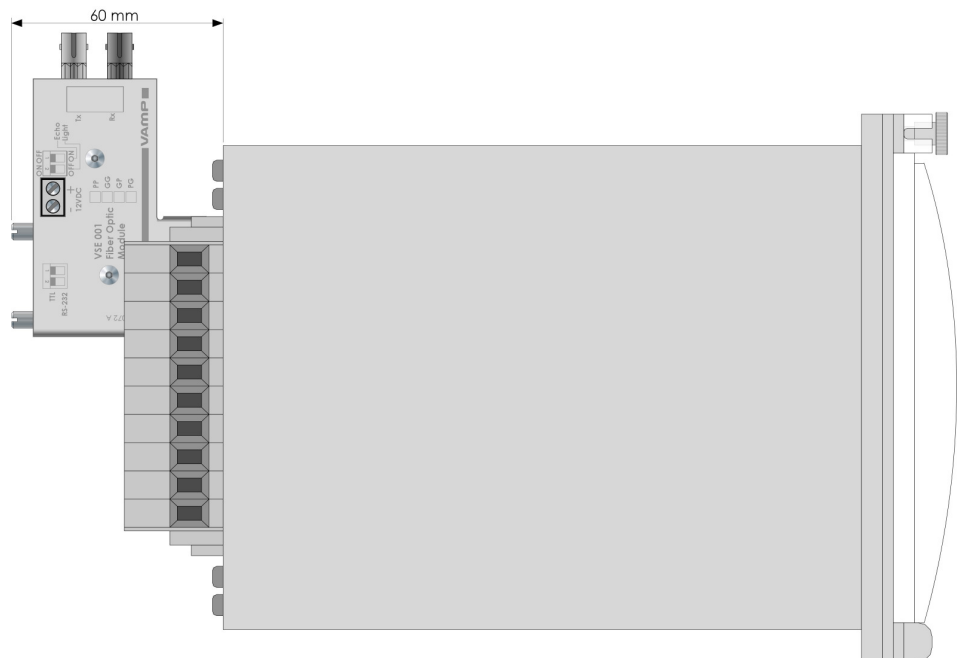


Figure 3. Mounting picture of module

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).

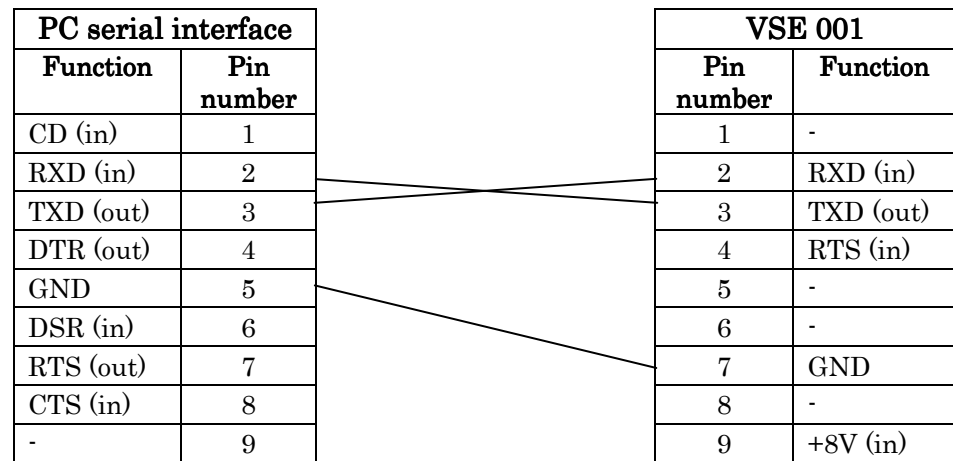


Figure 4. PC interface cable

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

Reference information

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