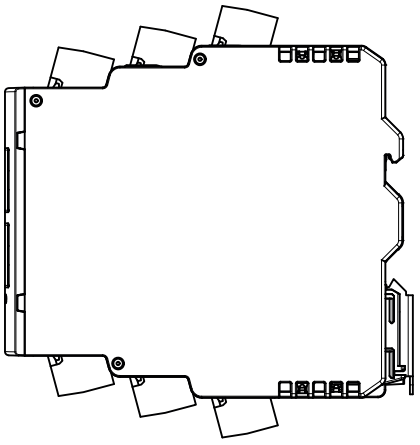
CE

Installation instructions
Diagnostic electronics
for vibration sensors

VSE150
VSE151
VSE153

UK

80270678/00 10/2017



1 Functions and features

The diagnostic electronics has 2 analogue inputs and 4 dynamic inputs. These inputs can be used for process value monitoring, vibration monitoring, vibration diagnostics or analysis of other dynamic signals.

2 Symbols used

▶ Instructions

Important note
Non-compliance may result in malfunction or interference.

3 Installation

▶ Disconnect the system from power before installation.

▶ Mount the unit in a control cabinet with a protection rating of at least IP 54 to ensure protection against accidental contact with dangerous contact voltages and against atmospheric influence. The control cabinet has to be installed in accordance with local and national regulations.

▶ Mount the unit vertically on a DIN rail.

▶ Leave enough space between the unit and the top or bottom of the control cabinet to enable air circulation and to avoid excessive heating.

3.1 Installation instructions

Electrostatic discharge

The device contains components that can be damaged or destroyed by electrostatic discharge.

▶ When handling the device, observe the necessary safety precautions against electrostatic discharge (ESD) according to EN 61340-5-1 and IEC 61340-5-1.

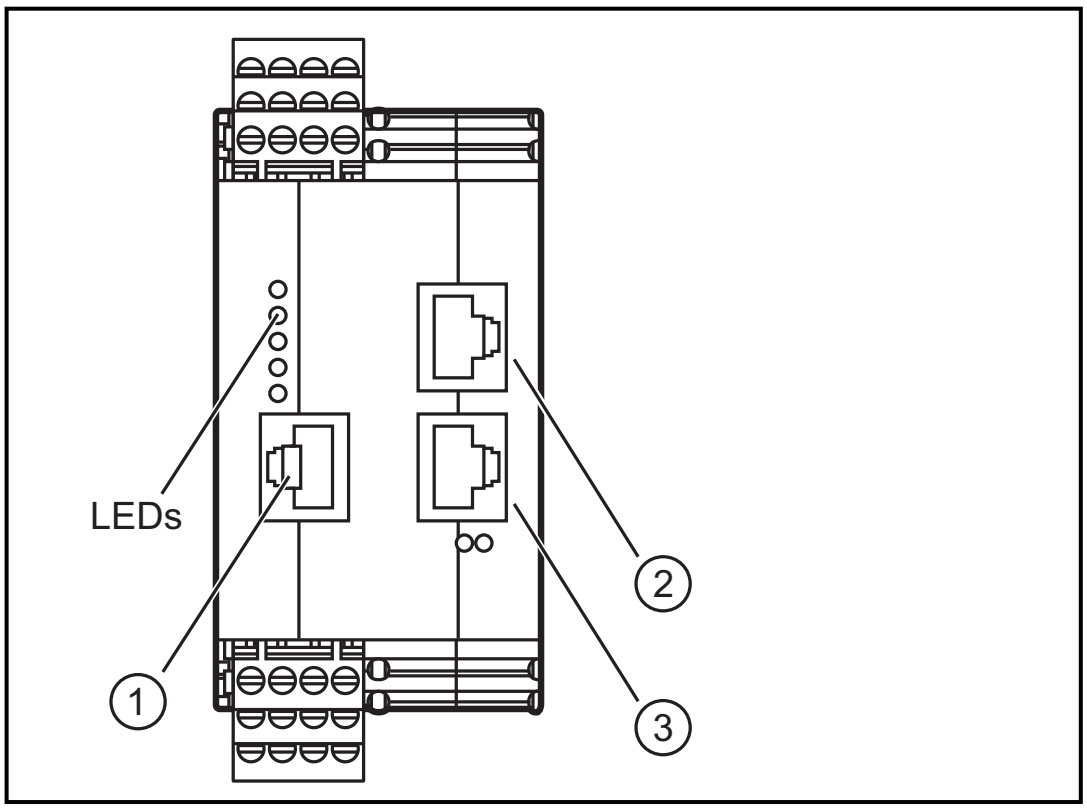
▶ In order to dissipate electrostatic charges, the unit may only be operated on a grounded DIN rail.

4 Electrical connection

The unit must be connected by a qualified electrician.
The national and international regulations for the installation of electrical equipment must be adhered to.

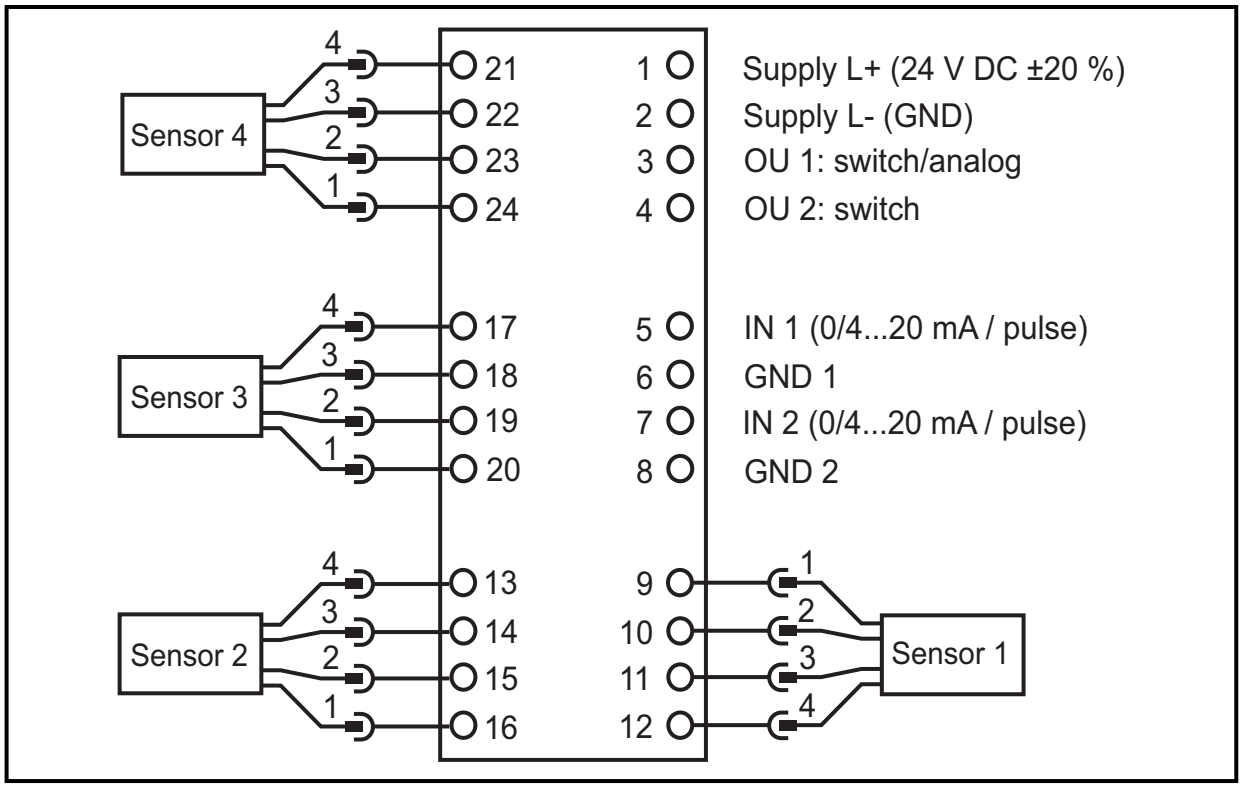
▶ Disconnect the system from power and connect the unit.

4.1 Interfaces



	VSE150	VSE151	VSE153
1	1: Config: TCP/IP, IP address 192.168.0.1 (factory setting), parameter setting and data interface (e.g. VES004)		
2	IE 1: PROFINET IO	IE 1: EtherNet/IP	IE 1: Modbus TCP
3	IE 2: PROFINET IO	IE 2: EtherNet/IP	IE 2: Modbus TCP

4.2 Wiring



Wiring of the sensors 1...4 (S1...S4) according to the connected unit

Sensor				VSA	IEPE/VSP	0...20 mA
S1	S2	S3	S4			
09	16	20	24	BN: L+ (+ 9 V)	not connected (n.c.)	not connected (n.c.)
10	15	19	23	WH: signal	IEPE +	signal
11	14	18	22	BU: GND	IEPE -	GND
12	13	17	21	BK: test	not connected (n.c.)	not connected (n.c.)

Terminal 1 supply L+
When using an IEPE input 24 V + 20% (Integrated Electronics Piezo Electric)

5 Parameter setting

Parameter setting and configuration of the unit are exclusively made via the PC software VES004.

6 Technical data, approvals/standards

Detailed manuals, technical data, EC declaration of conformity, approvals and further information can be found at www.ifm.com.

7 Maintenance and disposal

The unit is maintenance-free.

▶ Dispose of the device including the battery in accordance with the national environmental regulations.

8 Scale drawing