General features

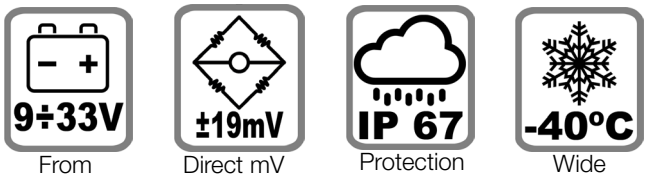


- Percentage indication through a 3 colors and 8 LEDs bar
- Inputs for one or two amplified transducers (4 to 20 mA or 0.5 to 4.5 VDC) or an extensimetric transducer
- Green LED for power supply indication
- Same power supply for 12/24 VDC systems
- Outputs for alarm and pre-alarm signalling
- PL b (EN 13849-1) alarm safety output (for “O1P” option only, see Ordering Code)
- Digital input to select between two alarm levels
- Zero and maximum level calibration
- Waterproof, plastic, compact body (40% fiber glass reinforced PBT)
- Electrical connection with MATE-N-LOK connectors (counterparts provided)

On request:
- RS-232 serial connection

Typical fields of application:
generic mobile machines.

Note:
The user/installer is responsable for evaluating the values and, thus, the safety of the application



From 9 to 33 VDC | Direct mV analog inputs | Protection Grade IP67 | Wide temperature range

Technical Data

Power supply	9 to 33 VDC	Protected against polarity inversion
Analog inputs	two 4 to 20 mA(1) or 0.5 to 4.5 VDC or one differential type	Protected against short circuits and operator errors. RSHUNT = 200 Ohm [1] (for 4 to 20 mA inputs only)
Digital inputs	1	-
Digital outputs	2	Positive. IMAX = 3 A. Protected against short circuits
Operating temperature	from -40 to +70 °C	-
Maximum weight	0.25 kg	-
Housing material	40% fiberglass reinforced PBT	-
Coating	Two components polyurethane	-
Standard protection grade	IP67	-
CE Conformity	EMC Directive: 2014/30/EU	
EMC: Immunity | Emission	EN 61000-6-2, EN61000-6-3	Heavy industrial
Vibration resistance: Sinus	EN 60068-2-6: 5 g, 10 to 150 Hz	-
Shock resistance: Shock	EN 60068-2-27: 30 g, 6 ms	-
MTTFd	EN 13849-1: ≥ 100 years	-

[1] When two wires 4 to 20 mA transducers are used, check that resulting power supply is enough to power on the transducers

Ordering Code

1	2	3	4	5	6
Display type	Analog input	Alarm level	Alarm output	Pre-Alarm output	Box
VPL	_1TD	_1	O1P	O1P	S

1	
Display type	
VPL	Percentage LED digital indicator

2	
Analog input	
_1TD	One strain gauge transducer
1TXV	One 0.5 to 4.5 VDC signal transducer
2TXV	Two 0.5 to 4.5 VDC signal transducer
1TXA	One 4 to 20 mA signal transducer
2TXA	Two 4 to 20 mA signal transducer

3	
Alarm level	
_1	One alarm level
_2	Two alarm level

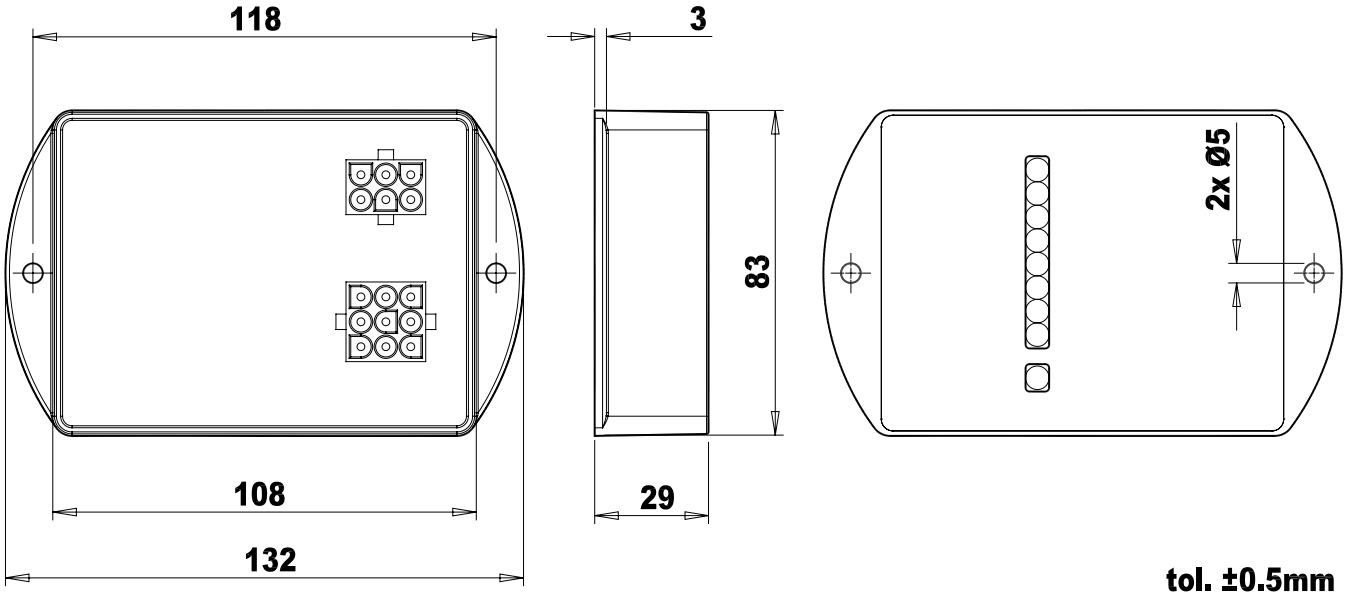
4	
Alarm output	
NOT	No alarm output
O1P	One positive logic alarm output (safety level: PL b)
O1N	One negative logic alarm output (safety level: none)

5	
Pre-Alarm output	
NOT	No pre-alarm output
O2P	One positive logic pre-alarm output
O2N	One negative logic pre-alarm output

6	
Box	
S	With standard box

Custom configuration are available on request

Dimensions [mm]



tol. ±0.5mm

Accessories

Type	Description
Counterpart Connector kit	AMP MATE-N-LOK 9 pin plug connector composed by: • 1 loose connector 9 pin; • 9 female terminals; • 1 wire Seal; • 1 interface Seal
Serial connection cable	RS-232 serial cable to connect a PC (DB9 connector) to VPL board (AMP Mate-n-Lok 6 pins connector) L=4 m
USB adapter	USB/RS-232 DB9 adapter