LVL-M3

Vibration Limit Switch

ATEX: II 1/2G Ex ia IIC T6...T1 Ga/Gb II 2 GEx ia IIC T6...T1 Gb IECEx: Ex ia IIC T6...T1 Ga/Gb Ex ia IIC T6...T1 Gb

Temperature Tables







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With regard to the supply of products, the current issue of the following document is applicable: The General Terms of Delivery for Products and Services of the Electrical Industry, published by the Central Association of the Electrical Industry (Zentralverband Elektrotechnik und Elektroindustrie (ZVEI) e.V.) in its most recent version as well as the supplementary clause: "Expanded reservation of proprietorship"

Worldwide

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1 Associated Documentation

The corresponding datasheets, manuals, instruction manuals, declarations of conformity, EUtype examination certificates, certificates, and control drawings if applicable are an integral part of this document. You can find this information under www.pepperl-fuchs.com.

This document does not substitute the instruction manual.

For full information on the product, refer to the instruction manual and further documentation on the Internet at www.pepperl-fuchs.com.

This document is an integral part of the following documents:

- Manual: DOCT-8106
- Brief instructions: DOCT-8109
- Instruction manual: DOCT-8292

For specific device information such as the year of construction, scan the QR code on the device. As an alternative, enter the serial number in the serial number search at www.pepperl-fuchs.com.

2 Supplementary Documentation

Information for explosion protection: The information can be found on the Internet at www.pepperl-fuchs.com.

3 Manufacturer's Certificates

EU Declaration of Conformity

Declaration number: DOC-7442

The EU Declaration of Conformity is available on the product detail page of the devices on the internet at www.pepperl-fuchs.com.

Enter the order designation in the search field \rightarrow Select the appropriate product \rightarrow Open the product detail page \rightarrow Open the **Approvals+Certificates** tab.

EU Type-Examination Certificate

Certificate number: CSANe 23ATEX1157X List of applied standards: see EU Declaration of Conformity

IEC Declaration of Conformity

Certificate number: IECEx CSAE 23.0044X List of applied standards: see IECEx certificate

4 Manufacturer Address

Pepperl+Fuchs Group Lilienthalstraße 200, 68307 Mannheim, Germany Internet: www.pepperl-fuchs.com



5 Device Versions

Device type	Basic specifications	Optional specifications
LVL-M3	-XXXXXX-XXXXXX-XX	+XX

The X-marked letters of the type code are placeholders for versions of the device.

The following specifications reproduce an extract from the product structure and are used to assign.

Basic specifications

Option	Type of probe
А	Compact version
В	Short tube version
С	Tube extension

Option	Housing, material			
A	Single compartment, aluminum, coated			
Р	P Single compartment, plastic			

Option	Electrical connection
А	Gland M20, plastic, IP66/68, NEMA type 4X/6P
B ¹	Gland M20, brass nickel plated, IP66/68, NEMA type 4X/6P
F	Thread M20, IP66/68, NEMA type 4X/6P
G	Thread G1/2, IP66/68, NEMA type 4X/6P
H ²	Thread NPT1/2, IP66/68, NEMA type 4X/6P
¹	Thread NPT3/4, IP66/68, NEMA type 4X/6P
M ¹	Plug M12, IP66/67, NEMA type 4X

¹ Only in connection with feature Housing, material, option A

² Only in connection with feature **Housing, material**, option **P**

Option	Electrical output
N	FEL48, 2-wire NAMUR
Option	Approval

Optional specifications

Option	Accessory enclosed	
WP ¹	Weather protection cover, plastic	

¹ Only in connection with feature **Housing, material**, option **A**



Temperature Tables

General notes

Optional specification, feature Accessories enclosed, option WP

Note

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When using the weather protection cover: Reduce the values T_{amb} of P1, P2, P3 by 16 K.

Description notes

Note

Unless otherwise indicated, the positions always refer to the basic specification.

- 1st column: basic specification, feature Electrical output, option N
- 2nd column: temperature classes T6 (85 °C) to T1 (450 °C)
- Column P1 to P5: position (temperature value) on the axes of the derating
 - T_{amb}: ambient temperature in °C
 - T_p: process temperature in °C

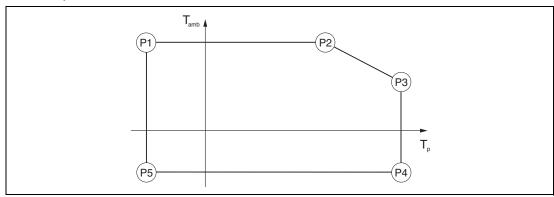


Figure 1



Zone 0, Zone 1

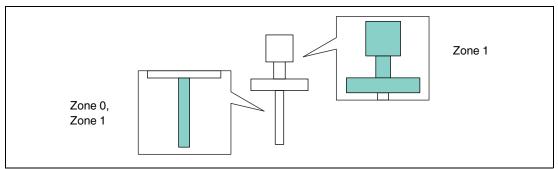


Figure 2

Basic specification, feature Electrical output

Option N											
		P1		P1 P2		P3		P4		P5	
		Т _р	T _{amb}								
	T6	-50	70	74	70	80	66	80	-40	-50	-40
	T5	-50	70	70	70	95	70	95	-40	-50	-40
	T4	-50	70	70	70	130	62	130	-40	-50	-40
	T3T1	-50	70	70	70	150	53	150	-40	-50	-40

Table 1

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Connection Data

Associated intrinsically safe power supply unit with max. electrical specifications below the characteristic values of the electronic inserts

Basic specification, feature Electrical output

Option	Power supply circuit
Ν	U _i = 16 V
	l _i = 52 mA
	P _i = 170 mW
	L _i = 0
	C _i = 30 nF

Table 2



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Explosion Protection

- Intrinsic Safety Barriers
- Signal Conditioners
- FieldConnex[®] Fieldbus
- Remote I/O Systems
- Electrical Ex Equipment
- Purge and Pressurization
- Industrial HMI
- Mobile Computing and Communications
- HART Interface Solutions
- Surge Protection
- Wireless Solutions
- Level Measurement

Industrial Sensors

- Proximity Sensors
- Photoelectric Sensors
- Industrial Vision
- Ultrasonic Sensors
- Rotary Encoders
- Positioning Systems
- Inclination and Acceleration Sensors
- Fieldbus Modules
- AS-Interface
- Identification Systems
- Displays and Signal Processing
- Connectivity

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