Instruction Manual

Vibracon LVL-B1, LVL-B2

IECEx: Ex ta/tc IIIC T170°C Da/Dc

IECEx DEK 11.0068



SI00424O-B

Safety instructions for electrical apparatus for explosion-hazardous areas according to IEC standards

SI00424O-B/98/EN/13.13 71215852





Vibracon LVL-B1, LVL-B2

Designation of type of protection

Associated documentation	This document is an integral part of the following documents: KA00227O The documents which are supplied and correspond to the device type apply.	EN	
Supplementary documentation	Explosion-protection manual		
Manufacturer's	IECEx certificate		
certificates	Certificate number: IECEx DEK 11.0068		
	Applied standards:		
	• IEC 60079-0:2011		
	• IEC 60079-31:2008		
Designation	Explanation of the labelling and type of protection can be found in the explosion protection manual.		
	Designation according to IECEx		
	Equipment protection level (EPL) Da/Dc		

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Ex ta/tc IIIC T170°C Da/Dc



Figure 1



- Zone 22 Tank, hazardous area Zone 20 Electronic insert Supply voltage Ambient temperature Process temperature

Electrical connection data:

Electronic insert	Supply voltage U _b	Relay circuit
FEM22 (E5)	10 45 V DC	-
FEM24 (WA)	19 253 V AC or 19 55 V DC	253 V AC/6 A, 1500 VA/cos φ = 1, 750 VA/cos φ > 0.7

Maximum surface temperature:

Ambient temperature T _{amb}	Surface temperature: housing (under fault condition)	Process temperature T _p	Surface temperature: Zone 20 (under fault condition)
-40 °C +70 °C	T 90 °C	-40 °C +150 °C	T 170 °C



EN

Safety instructions: Installation	• Install the device according to the manufacturer's instructions and any other valid standards and regulations.
	• The electronics enclosure of the level limit switch is suitable for level of protection Dc, while the sensor is suitable for level of protection Da.
	• Do not operate the device outside the specified electrical, thermal and mechanical parameters.
	• Changes in electrical and mechanical parts of the equipment could harm the type of explosion protection and are not allowed for the user.
	 The housing of transmitter is equipped with a ground terminal; users must ensure that it is reliably connected to ground during installation and use.
	 Max. heat developed at the device surface in level of protection Da under fault conditions: ≤ 20 K (measured when device covered with a layer of dust greater than 50 mm).
	 Max. heat developed at the housing surface in level of protection Dc under fault conditions: ≤ 20 K.
	 Support extension tube of the device if a dynamic load is expected.
	• Only install the devices in media for which the wetted materials have sufficient durability.
	Use a process connection seal that meets the material compatibility and temperature requirements.
	• After mounting and connecting the sensor, check that a degree of protection of at least IP65 to EN 60529 has been attained (screw the cover tight and fix the cover fastener, mount cable glands correctly).

- Only use cable glands or blind-plugs with Ex approval and ingress protection of IP6X.
- Do not open in an explosive atmosphere.

Accessory high pressure sliding sleeve

• The high pressure sliding sleeve can be used for a continuous setting of the switch point and is suited for zone division if mounted properly (see manual).

ΕN

EN



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 "Elektrotechnik und Elektroindustrie (ZVEI) e.V." including the supplementary clause: "Erweiterter Eigentumsvorbehalt".

PROCESS AUTOMATION – PROTECTING YOUR PROCESS



Worldwide Headquarters

Pepperl+Fuchs GmbH 68307 Mannheim · Germany Tel. +49 621776-0 E-mail: info@de.pepperl-fuchs.com

For the Pepperl+Fuchs representative closest to you check www.pepperl-fuchs.com/pfcontact

www.pepperl-fuchs.com





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