Instruction Manual

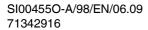
Level Probe LGC2

IECEx: Ex ia IIC T6...T4 Gb



SI00455O-A

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





FPEPPERL+FUCHS



Level Probe LGC2

Associated Documentation	This document is an integral part of the following documents: BA01605O, KA01244O		
Documentation	The documents which are supplied and corr	espond to the device type apply.	
Supplementary Documentation	Explosion protection manual		
Manufacturer's	IECEx certificate		
certificates	Certificate number: IECEx DEK 17.0045		
	Affixing the certificate number certifies conformity with the standards under www.IECEx.com (depending on the device version).		
	IEC 60079-0:2011IEC 60079-11:2011		
Designation	Explanation of the labelling and type of protection can be found in the explosion protection manua		
	Designation according to IECEx Equipment protection level (EPL)	Gb	
	Designation of type of protection	Ex ia IIC T6T4	

Safety instructions: Installation

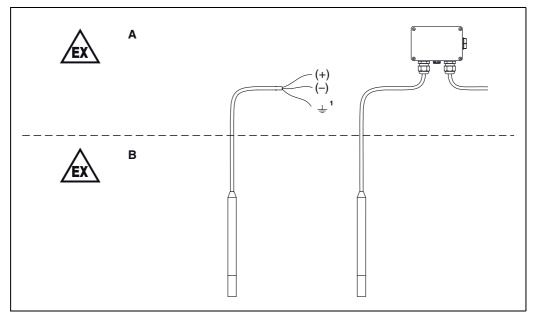


Figure 1

- A Zone 1 or Zone 2
- 3 Zone 1
- ¹ only for versions with outside diameters 22 mm and 42 mm.
- Comply with the installation and safety instructions in the manual.
- Install the device according to the manufacturer's instructions and any other valid standards and regulations (e. g. IEC/EN 60079-14).
- The type of protection changes as follows when the devices are connected to certified intrinsically safe circuits of Category ib: Ex ib.
- When interconnecting intrinsically safe circuits, take into account sensor capacitance and length-dependent cable capacitance and inductance (see table).
- Connect cable screen to earth ground of the installation.
- The intrinsically safe input power circuit of the device is isolated from ground potential and has a
 dielectric strength of at least 500 V_{rms} with respect to it.
 When shortening the length of the cable ensure that this dielectric strength is maintained for
 connection wires and earth grounded screen.
- Avoid impact and friction sparks (anchor equipment if necessary/secure against swinging).
- Avoid electrostatic charging of the plastic surfaces (especially at the version with outside diameter 29 mm and at the terminal box).
 - Do not rub. Do not use in media or environments which may generate electrostatic charges on the plastic surfaces.

Terminal Box

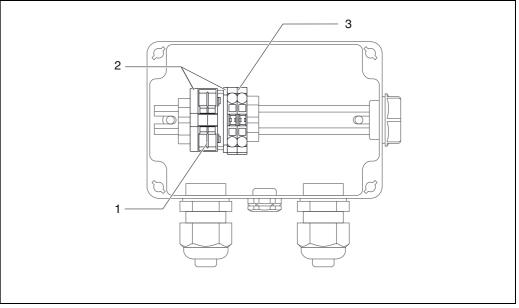


Figure 2

- Functional earth terminals
- Isolation platesn
- 2 Signal terminals
- Use a connecting cable for continuous duty temperature \geq 85 $^{\circ}C.$
- Do not remove or move terminal blocks, isolation plates or fastening elements.
- Do not build in additional components.

Temperature tables

Ambient temperature range	Temperature class	Max. ambient temperature
-10 °C ≤ T _{amb} ≤ +70 °C	T4	+70 °C
	T5	+55 °C
	T6	+40 °C

Terminal box

Ambient temperature range	Temperature class
$-40 ^{\circ}\text{C} \le \text{T}_{\text{amb}} \le +80 ^{\circ}\text{C}$	Т6

Connection data

Electrical data

 $U_i \le 30 \text{ V DC}$ $I_i \stackrel{.}{\leq} 133 \text{ mA}$

 $P_i \le 1 W$

Sensor:

 $C_i \le 10.3 \text{ nF}, L_i = 0$

Cable:

 $C_i \leq 180~pF/m,~L_i \leq 1~\mu H/m$



PROCESS AUTOMATION – PROTECTING YOUR PROCESS





Worldwide Headquarters

Subject to modifications

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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



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