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Safety Instructions
Memosens CLS15E, CLS16E, CLS21E, CLS82E

EAC Ex 0Ex ia IIC T3/T4/T6 Ga X

Safety instructions for electrical apparatus in explosion-hazardous areas

Endress+Hauser
People for Process Automation

Memosens CLS15E, CLS16E, CLS21E, CLS82E

EAC Ex 0Ex ia IIC T3/T4/T6 Ga X

Table of contents

Associated documentation

This document is an integral part of

Operating Instructions Memosens CLS21E, BA02020C

Operating Instructions Memosens CLS15E, BA02018C

Operating Instructions Memosens CLS16E, BA02019C

Operating Instructions Memosens CLS82E, BA02027C

Supplementary documentation

Competence Brochure CP00021Z
- Explosion Protection: Guidelines and General Principles
- www.endress.com

Certificate

EAC certificate, certificate number: ЕАЭС KZ 7500525.01.01.02089

Identification

The nameplate provides you with the following information on your device:
- Manufacturer identification
- Extended order code
- Serial number
- Safety information and warnings
- Ex marking on hazardous area versions

► Compare the information on the nameplate with the order.

Type code

Type		Version					
CLS15E	-	GA	**	**	a [1)]	***	+*
CLS16E	-	GA	**	**	***	+*	
CLS21E	-	GA	**	**	***	+*	
CLS82E	-	GA	**	**	***	+*	
		EAC Ex 0Ex ia IIC T3/T4/T6 Ga X	No Ex relevance				

1) a = A, B

Certificates and approvals

- EAC Ex, 0Ex ia IIC T3/T4/T6 Ga X
- Zone 0
- The product has been certified in accordance with Directive TR CU 012/2011 valid within the Eurasian Economic Area (EAEU). The EAC conformity mark has been affixed to the product.

Certification Body

ТОО/ЖШС "Т-Стандарт"

Safety instructions

- It is not permitted to operate the sensor under electrostatically critical process conditions. Considerable steam and dust clouds that act directly on the Memosens sensor head must be avoided at all times.
- Ex-protected digital sensors with Memosens technology are identified by an orange-red ring on the terminal head.
- The electrical connection information provided in the Operating Instructions must be adhered to.
- The CLS15E-type sensors with non-metal process connections and the CLS21E-type sensors may only be employed for measurement in liquids with a minimum conductivity of 10 nS/cm.
- When using devices and sensors, the regulations for electrical systems in explosion-hazardous areas must be observed (EN/IEC 60079-14).

Temperature tables

The above temperature table applies only under the following installation conditions, which are described in the following graphic → 1. If the installation conditions cannot be met, the maximum process temperature T_p must not exceed the maximum ambient temperature T_a.

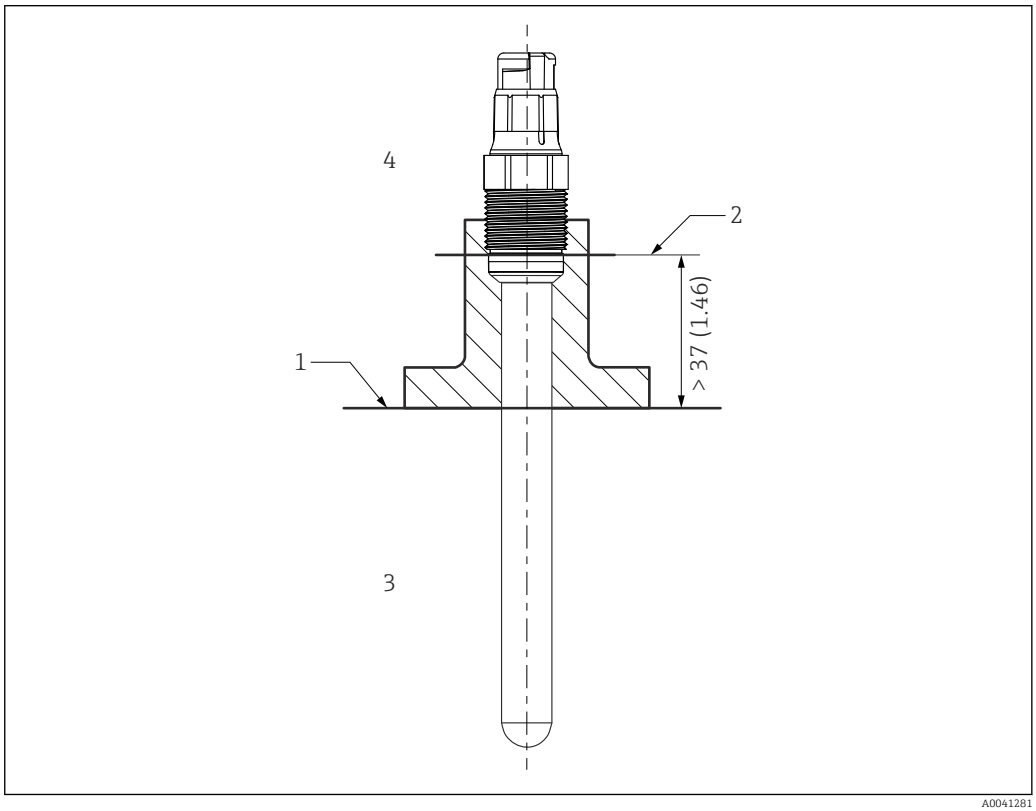
Connection

Ex specification

The CLSxxE-type conductivity sensors are approved and are suitable for use in explosion-hazardous environments.

- The approved CLSxxE-type digital conductivity sensors have an intrinsically safe input with the following parameter set:
  P_i = 180 mW
- The approved CLSxxE-type digital conductivity sensors may only be connected to a Memosens cable or a compact transmitter with an intrinsically safe output with the following parameter set:
  P_0 max. 180 mW

Installation conditions



1 *Installation conditions*

1 *Limit*
2 *Distance between plug-in head (lower edge) and process medium, without ring and thrust collar*
3 *Process temperature T_p*
4 *Ambient temperature T_a*

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