ExNB	Co-ordination of Notified Bodies Directive 2014/34/EU of the European Parliament and of the Council (ATEX) *Equipment and protective systems intended for use in potentially explosive atmosphere*	Clarification Sheet N° ExNB/CS/029

Originator	DKE K241	**Status:**	Initial proposal	**Date:**	2015-07-06
			Responses/Final Draft	**Date:**	2015-11-17

LED not a safety device

Authorised by Chairman:	**Dr. Thedens**	**Date:**	**2016-05-27**
Confirmed by Chairman: **(Step*5.2.5)**	**Mr. Omerovic**	**Date:**	**2021-03-17**
		Signature	
Former number of document:	**ExNB/16/474/CS**		

Question:
Can a single component such as a diode be classified as “Safety device” using SIL figures?

Answer:
No. In the Scope of EN 50495 it is clearly stated that a safety device must be a device with a complete function and not only a single component.

Therefore, e.g. a luminaire with LED cannot be certified as “eb”-equipment by classifying the LED as safety device.

Background:
EN 50495 determines the safety requirements of electrical devices, which are used for the control of ignition hazards of equipment in potentially explosive areas. This also includes safety devices, which are operated outside areas with potentially explosive atmospheres, to guarantee the safe function of equipment or protective systems in order to control explosion hazards. By means of control or monitoring devices, sources of ignition can be avoided. Safety devices can be used e.g. to detect the occurrence of an

Subject:	**Directive, 2014/34/EU Article No.**	
	Directive, ESR No.	
	Directive, Module Annex No.	
	Standard, No.	EN 50495

This ExNB Interpretation/Clarification Sheet has the sole purpose of clarifying the application of the EN Standards and/or of the requirements of Directive 2014/34/EU and related documents. It does not in any way change the content of the standards and/or of the requirements. It remains valid until an official answer is received from the European Commission of the relevant standardization bodies.

explosive atmosphere and to switch off sources of ignition. The application of safety devices that comply with that standard allows the realisation of systems, which meet the requirements of the categories of electric devices defined in Directive 2014/34/EU.