



2nd Supplement

(Supplement in accordance with Directive 94/9/EC Annex III number 6)

to the EC-Type Examination Certificate DMT 03 ATEX E 029

Equipment: Photoelectric Sensor Type * 92/3 * Ex

Manufacturer: Leuze electronic GmbH & Co.

Address: 73277 Owen-Teck, Germany

Description

The Photoelectric Sensor can be modified according to the descriptive documents as mentioned in the pertinent test and assessment report.

Photoelectric Sensor

Type * 92/3 * Ex



FRK	-300 L	Diffuse reflection light scanners with background suppression
PRK	L	Retro-reflective Photoelectric Sensor
LS	E-L	Throughbeam Photoelectric Sensor
LS	SE-L	Throughbeam Photoelectric Sensor

The Essential Health and Safety Requirements of the modified and previous equipment are assured by compliance with:

EN 60079-0:2006 General requirements
EN 60079-11:2007 Intrinsic safety 'i'
EN 61241-0:2006 General requirements
EN 61241-11:2006 Protection by IS

The marking of the equipment shall include the following:



II 2G Ex ia IIC T6
II 2D Ex iaD 21 T80 °C

Parameters

- | | | | | | |
|---|--------------------------------|-------|--------|---|--------------------|
| 1 | Supply and signal circuits | | | | |
| | Voltage | U_i | DC | 13 | V |
| | Current | I_i | | 40 | mA |
| | Power | P_i | | 90 | mW |
| | Effective internal capacitance | C_i | \leq | 70 | nF |
| | Effective internal inductance | L_i | \leq | 200 | μ H |
| 2 | Optical signal | | | | |
| | Wave length | | | 680 nm to 880 nm | |
| | Radiated power | | \leq | 1.1 | mW/mm ² |
| | Light pulse duration | | \leq | 21 | μ s |
| | Pulse rate | | \leq | 3.5 | ms |
| 3 | Ambient temperature range | | | $-20^\circ\text{C} \leq T_a \leq +50^\circ\text{C}$ | |

Special conditions for safe use

None

Test and assessment report

BVS PP 03.2015 EG as of 06.03.2009

DEKRA EXAM GmbH

Bochum, dated 06. March 2009

Signed: Simanski
Certification body

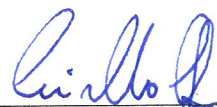
Signed: Dr. Eickhoff
Special services unit

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

44809 Bochum, 06. March 2009
BVS-Scha / Her A 20080843

DEKRA EXAM GmbH

Certification body



Special services unit