

(1) **CERTIFICATE**(2) Equipment Intended for Use in  
Potentially Explosive Atmospheres - **Directive 2014/34/EU**

(3) Certificate Number:

**PF16CERT4065 X**

(4) Equipment: Surge Protection Barrier K-LB-\*. \*\*

(5) Manufacturer: **Pepperl+Fuchs SE**(6) Address: Lilienthalstrasse 200  
68307 Mannheim  
Germany

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The manufacturer listed under item 5, herewith declares in sole responsibility that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive 2014/34/EU.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0:2018+AC:2020****EN 60079-11:2012**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This CERTIFICATE relates only to the design and construction of the specified equipment. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following :

**II (3) D [Ex ic Dc] IIIC**

Mannheim, 13.08.2021

ppa. Michael Kessler  
Vice President Business Unit  
Components & Technologyi.V. Maxim Graznov  
Norm Expert  
Product Group Interface

(13)

## SCHEDULE

(14)

### Certificate Number PF16CERT4065 X

(15) Description of Equipment

This device limits induced transients of different origin (e. g. lightning stroke, switching impulse, etc.). This is achieved by diverting the transient current to ground and limiting the signal line voltage to a safe level for the duration of the surge.

#### Electrical data

Equipment	$U_i$	$I_i$	$C_i$	$L_i$
Type K-LB-*.30*	30V	250mA	$\approx 0$	200 $\mu$ H
Type K-LB-*.6*	6V	250mA	$\approx 0$	200 $\mu$ H

$U_o$ ,  $I_o$  and  $P_o$  are dependent upon the connected intrinsically safe circuit.

Permitted ambient temperature range: -30°C to 80°C

(16) Test report

The examination and test results are recorded in the confidential reports: 16-1301PF-14 and 16-1301PF-14A

(17) Special conditions for safe use

For Surge Protection Barriers of types K-LB-\*.G, equipotential bonding shall be provided along the intrinsically safe circuits within and outside of the hazardous area

(18) Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.