



(1) **EC-Type Examination Certificate**

(2) **Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – Directive 94/9/EC**

(3) **EC Type Examination Certificate Number**

EPS 14 ATEX 1 764 X

Revision 0

(4) **Equipment: Limit switch box type APL-5*****

(5) **Manufacturer: HKC Co., Ltd.**

(6) **Address: 5Ra-503, Sihwa industrial complex, Seonggok-dong,
155 Byeolmang-ro
Danwon-gu, Ansan-si, Gyeonggi-do
Republic of Korea**

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

(8) Bureau Veritas Consumer Products Services Germany GmbH, Notified Body No. 2004 in accordance with Article 9 of the Council Directive 94/9/EC of March 23rd 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential report 14TH0242.

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

EN 60079-0:2012

EN 60079-1:2007

EN 60079-11:2012

EN 60079-31:2009

(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 EC-Type Examination Certificate relates only to the design and the construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

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

II 2G Ex d IIC T6 Gb



II 2G Ex ia IIC T6 Gb

II 2D Ex tb IIIC T85°C Db IP67

Certification department of explosion protection

Nuremberg, December 08, 2014



D. Zitzmann

(13)

Annexe

(14) **EC-Type Examination Certificate EPS 14 ATEX 1 764 X Rev. 0**

(15) Description of equipment:

The series APL-5*** Limit Switch Box is an equipment which monitors the present position of a valve by contacting micro switches inside Ex-d enclosure.

The interior of the enclosure is fitted with up to four switches rated at up to 16A, 250Vac with associated switch assembly and terminal block.

Option:

The limit switch box can be equipped with Ex ia proximity sensor NJ2-V3-N (Pepperl + Fuchs). The electrical connection must be made according to the following max. ratings and internal reactances:

$U_i = 16 \text{ V}$	$C_i = 40 \text{ nF}$
$I_i = 25 \text{ mA}$	$L_i = 50 \text{ }\mu\text{H}$
$P_i = 64 \text{ mW}$	

(16) Test report: 14TH0242

(17) Special conditions for safe use:

Ambient temperature range: $-20^\circ\text{C} \leq T_a \leq +60^\circ\text{C}$

Cable entry holes are provided as specified on the certified drawings for the fitting of suitable certified flameproof cable entry devices. Unused entries are to be fitted with suitable certified flameproof blanking plugs.

For use with proximity sensor NJ2-V3-N the following additional condition applies:

The equipment shall only be connected to certified intrinsically safe evaluation and supply circuit with type of protection Ex [ia] IIC.

(18) Essential health and safety requirements:

Met by standards.

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Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.
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