

CERTIFICATE

(1) EC-Type Examination

(2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC

(3) EC-Type Examination Certificate Number: **KEMA 07ATEX0129X** Issue Number: 2

(4) Equipment: **Oil Level Controllers/Switches, Models KLCE, KES, KLCE-DPDT, KES-DPDT, KHL, KHL-ES, KHL-DPDT, KHL-ES-DPDT, KSHL, KSHL-ES, KSLL and KSLL-ES.**

(5) Manufacturer: **Kenco Engineering Company**

(6) Address: **10001 East 54th Street, Tulsa, OK, 74146, USA**

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

(8) DEKRA Certification B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 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 to the directive.

The examination and test results are recorded in confidential test report number **210961000**.

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

EN 60079-0 : 2009

EN 60079-1 : 2007

(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, examination and tests of the specified equipment according to the Directive 94/9/EC. 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 2 G Ex d IIB + H₂ T5 Gb

This certificate is issued on December 2, 2011 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

DEKRA Certification B.V.

M. Erdhuizen
Certification Manager

(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 07ATEX0129X**

Issue No. 2

(15) **Description**

The Oil Level Controllers/Switches, Models KLCE, KES, KLCE-DPDT, KES-DPDT, KHL, KHL-ES, KHL-DPDT, KHL-ES-DPDT, KSHL, KSHL-ES, KSSL and KSSL-ES monitor the level of oil in a tank using a float arm. This float arm activates a switch(s) thereby providing an on/off indication for unspecified remote devices.

Ambient temperature range $-35\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$.

Electrical data

Contact Ratings: 15A, 125/250/480V ac; 0.5A, 125V dc; 0.25A, 250V dc; 1/8 hp, 125V ac; 1/4 hp, 250V ac.

Installation instructions

The instructions provided with the equipment shall be followed in detail to assure safe operation.

(16) **Test Report**

KEMA No. 210961000.

(17) **Special conditions for safe use**

For this device and its rating, EN 60079-1 calls for a maximum diametrical clearance gap of 0.15 mm (for cylindrical joints), but the gap between the Switch Lever Push Rod and the Push Rod Guide is specified by Kenco to be 0.076 mm. Therefore, the gap (between the Push Rod and Rod Guide) must not exceed 0.076 mm.

For this device and its rating, EN 60079-1 calls for a minimum thread engagement of 5 full threads but the minimum thread engagement between the Enclosure Cover and Enclosure Base is specified by Kenco to be 10 threads. Therefore, the minimum thread engagement (between the enclosure cover and enclosure base) must be 10 minimum.

For this device and its rating, EN 60079-1 calls for a minimum thread engagement of 5 full threads but the minimum thread engagement between the Switch Lever Push Rod Guide and Enclosure Base is specified by Kenco to be 12 threads. Therefore, the minimum thread engagement (between the Switch Lever Push Rod Guide and Enclosure Base) must be 12 minimum.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in KEMA Test Report No. 210961000.