

EU - Type Examination Certificate

(1)

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**

(3) EU - Type Examination Certificate Number

EPS 12 ATEX 1 479 X

Revision 4

(4) Equipment: Pull rope switch type NTS EX, SEG EX, HEN EX;
Belt misalignment switch type SLS EX, SEL EX, HES EX;
Limit switch type SLR EX, REL EX, HER EX

(5) Manufacturer: Kiepe Electric GmbH

(6) Address: Kiepe-Platz 1
40599 Düsseldorf
Germany

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

(8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, 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 documentation under the reference number 10TH0418.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN IEC 60079-15:2019


EN 60079-31:2014

(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 annex to this certificate.

(11) This EU - Type Examination Certificate relates only to the design and construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

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

 II 2D Ex tb IIIC T85°C Db IP67

 II 3G Ex nR IIC T6 Gc*



Certification department of explosion protection

Tuerkheim, 2023-03-08

Ulrich Feike

Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.

(13)

Annex

(14) **EU - Type Examination Certificate EPS 12 ATEX 1 479 X**

Revision 4

(15) Description of equipment:

The pull-rope emergency switch NTS EX (plastic enclosure) and SEG EX, HEN EX (metallic enclosure) are used in emergency-stop-circuits of belt conveyors. The belt misalignment switch SLS EX (plastic enclosure) and SEL EX, HES EX (metallic enclosure) are used to monitor the misalignment of belt conveyors. Due to the present construction the misalignment switch is also used as a position switch for monitoring positions which is then labelled as SLR EX (plastic enclosure) and REL EX, HER EX (metallic enclosure).

In order to operate switches within a Dupline bus system, switches which are exclusively intended for hazardous dust areas may be additionally equipped with DuplineSafe (Safety) Input Modules.

*II 3G Ex nR IIC T6 Gc: only models NTS EX, SLS EX and SLR EX

Electrical data:

NTS EX, SEG EX, HEN EX: 230 Vac / 6 A or 110 Vdc / 1.1 A
SLS EX, SLR EX, SEL EX, REL EX, HES EX, HER EX: 230 Vac / 1.5 A or 60 Vdc / 0.5 A or 24 Vdc / 2.0 A

Equipment that includes Dupline Modules:
Dupline 8.2 V / 1.0 – 70 mA

(16) Reference number: 10TH0418

(17) Special conditions for safe use:

Ambient temperature range:

NTS EX, SLS EX and SLR EX: -40 °C to +60 °C

SEG EX, SEL EX, REL EX, HEN EX, HES EX, HER EX: -40 °C to +70 °C

Only the plastic enclosures NTS EX, SLS EX and SLR EX are allowed to be used in gas-hazardous areas of zone 2, gas group IIC. In case of highly efficient charge generating processes being close to nR devices, the NTS EX is restricted for use in gas group IIA only. The SLS EX / SLR EX is not allowed to be used in such areas.

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Tuerkheim, 2023-03-09

