



IECEX Certificate of Conformity

Certificate No.: IECEX TUN 14.0021X

Date of Issue: 2015-10-13

Issue No.: 0

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Manufacturer: **Linak A/S**
Smedevænget 8, Guderup
DK-6430 Nordborg
Denmark

Additional Manufacturing location
(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

IEC 60079-31 : 2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition: 2

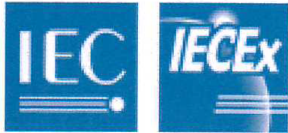
*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:
[DE/TUN/ExTR14.0044/00](#)

Quality Assessment Report:
[SE/SP/QAR14.0001/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The LA36 series of linear actuators creates motion in a straight line, as contrasted with circular motion of a conventional electric motor. The actuator consists of a motor, a gearbox and a spindle that causes the actuator to either extend or retract. The motor housing consists of a two part aluminium assembly with a cork gasket and an aluminium outer tube. The equipment is earthed externally through actuators fixation points: the piston rod eye and the back fixture. The actuators are rated for 12V, 24V or 36V DC with push / pull specifications in the range 500 N to 10.000 N. Model LA36 can furthermore be delivered with an accessory, called "Rodent protection". This variant is mounted with an external cable gland for mechanical fixing of a cable conduit, to make the power and signal cable rodent protected. This external cable gland has no influence on the Ex-protection principle and the ingress protection is still kept IP6x.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The max. duty cycle is specified as follows at an ambient temperature of +25 °C:

LOAD 0-6800 [N]	
STROKE	DUTY CYCLE
0-600 [mm]	20% int. - Max. 2 [min.] continuous drive followed by 8 [min.] rest.
600-1000 [mm]	15% int. - Max. 3 [min.] continuous drive followed by 17 [min.] rest.

LOAD 10000 [N]	
STROKE	DUTY CYCLE
0-1000 [mm]	5% int. - Max. 1 [min.] continuous drive followed by 19 [min.] rest.

2. Ambient temperature area are specified to -25 °C to + 65 °C

3. The power supply cable is of special design fulfilling IP 6X ingress protection. The cable can be delivered in different lengths. Only cables delivered by Linak must be mounted.

4. The connection between the actuator and the fixing points must be conductive and furthermore the application must be grounded in order to remove any electrostatic charge. This relates to both the fixing point on the motor housing and the point on the piston rod.

5. The supply cable is not UV-resistant and must be protected from direct sunlight.