LINAK Tuv Nord Linear Actuator Instructions

Tuv Nord Linear Actuator
Instruction Manual

Contents

SCHEDULE

EC-Type-Examination Certificate No. T~V 15 ATEX 143747 X
Description of equipment
The LA36 series of linear actuators creates motion in a straight line, as contrasted with the 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 aluminum assembly with a cork gasket and an aluminum 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 of 500 N to 10000 N.

Type variants

The LA36 series of linear actuators can be delivered in different type variants in accordance with the manufacturer's ordering nomenclature (below). The different type variants, which do not involve the design of the motor housing itself, have no influence on the Ex-protection principle Ex tb IIIC T135°C Db as long as the supplied power cable is delivered by the manufacturer.

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.

Actuator type	Spindle Pitch	Stroke length	Safety	Feedback	Platform	Motortype	IP degree		Colour	Back fixture	Piston rod eye orientation	Gear	Brake	BID	Fire category	Plug type	Cable	Safety factor	Not specified	Not used
36	***	***	*	*	**	*	*	-	*	*	*	*	*	****	*	*	*	*	*	

The actuator is certified under the type LA36 including various type variants which have no influence on the ingress protection/Ex-protection principle. The manufacturer's "Scheduled Drawings" specify the fixed part of the construction.

Supply (brown and blue)

Type 1	U_n	=	12	VDC	+ 20%
	I_{max}	=	26	A	
Type 2	U_n	=	24	VDC	+ 10%
	I_{max}	=	13	A	
Type 2	U_n	=	36	VDC	+ 10%
	I_{max}	=	10	A	

Signal Power suppy (red and black)

U_n	=	12 - 24	VDC	
I_n	=	40	mA	

Schedule EC-Type Examination Certificate No. T~V 15 ATEX 143747 X
Test documents are listed in the test report No. 15 203 143747
Special conditions for safe use

1. **The specified at an ambient of +25 ºC.**

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

LOAD 1000 [N]	
STROKE	**DUTY CYCLE**
0-1000 [mm]	5% int. – Max. 2 [min.] continuous drive followed b 8 [min.] rest

2. Ambient temperature areas are specified as -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.

Essential Health and Safety Requirements no additional ones

FCC Statement – Electric linear actuators with Bluetooth Note:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. – Consult the dealer or an experienced radio/TV technician for help

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science, and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

- This device may not cause interference.
- This device must accept any interference, including interference that may cause undesired operation of the device.

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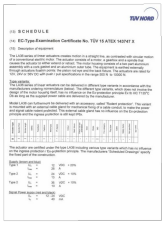	LINAK Tuv Nord Linear Actuator [pdf] Instructions LAXXIO, XBE-LAXXIO, XBELAXXIO, Tuv Nord Linear Actuator

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- HIMALAYA GROUP | Pusat Peralatan Industri | Mechanical & Electrical
- Industrial Specialised Applications | South Africa
- LINAK: tecnologia negli attuatori lineari elettrici
- LINAK: sistemas de tecnología de actuador lineal eléctrico para movimiento
- LINAK - electric linear actuator technology systems for movement
- LINAK – Elektrische Linearantriebssysteme, die für Bewegung sorgen
- LINAK – elektrische lineaire actuatortechnologie om beweging te creëren
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- LINAK: Hareket için elektrikli lineer aktüatör sistemleri
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- LINAK – systémy s technologií elektrických lineárních pohonů k zajištění pohybu
- LINAK – Elektrische Linearantriebssysteme, die für Bewegung sorgen
- LINAK - elektrisk lineær aktuatorteknologi til systemer med bevægelse
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- LINAK – teknologiske systemer for bevegelse ved bruk av elektriske lineære aktuatorer
- LINAK — systemy ruchu oparte na technologii elektrycznych siłowników liniowych