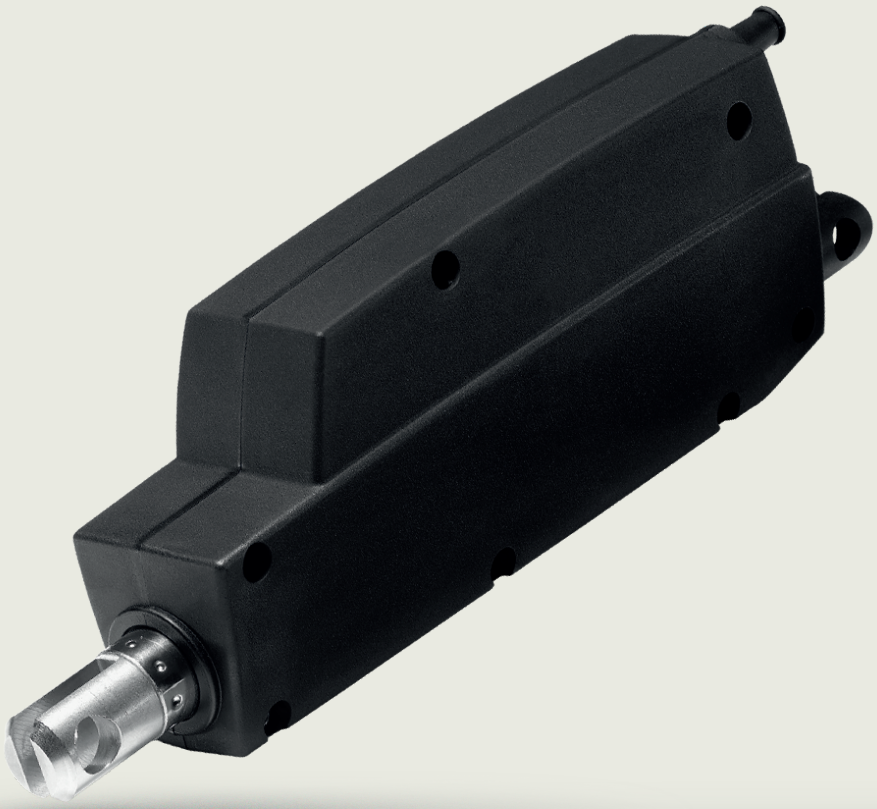
TECHLINE®
IMPROVING FLEXIBILITY

Linear Actuator LA12

Data Sheet



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Preface

Dear User,

We are delighted that you have chosen a LINAK® product.

LINAK systems are high-tech products based on many years of experience in the manufacture and development of actuators, lifting columns, desk frames, electric control boxes, controls, batteries, accessories and chargers.

This User Manual does not address the end user. It is intended as a source of information for the equipment or system manufacturer only, and it will tell you how to install, use and maintain your LINAK electronics. The manufacturer of the end product has the responsibility to provide a User Manual, where relevant safety information from this manual is passed on to the end user.

We are convinced that your LINAK product/system will give you many years of problem-free operation.

Before our products leave the factory, they undergo both function and quality testing. Should you, nevertheless, experience problems with your product/system, you are always welcome to contact your supplier.

LINAK subsidiaries and some distributors situated all over the world have authorised service centres, which are always ready to help you. Locate your local contact information on the back page.

LINAK provides a warranty on all products. (See warranty section).

This warranty, however, is subject to correct use in accordance with the specifications, maintenance being done correctly, and any repairs being carried out at a service centre, which is authorised to repair LINAK products.

Changes in installation and use of LINAK systems can affect their operation and durability. The products may only be opened by authorised personnel.

This User Manual has been written based on the present technical knowledge. LINAK reserves the right to carry out technical modifications and keeps the associated information updated.

LINAK A/S

Terms of Use

LINAK® takes great care to provide accurate and up-to-date information about its products. However, it is the responsibility of the user to determine the suitability of LINAK products for any specific application.

Due to ongoing product development, LINAK products are subject to continuous modifications and changes. LINAK reserves the right to make such modifications, updates, and changes without prior notice. For this reason, LINAK cannot guarantee the accuracy or current status of printed information about its products.

LINAK makes every effort to fulfil orders. However, due to the factors described above, LINAK cannot guarantee the availability of any particular product at any given time. LINAK also reserves the right to discontinue the sale of any product displayed on its website, in catalogues, or in other written materials issued by LINAK or its affiliated companies.

All sales are subject to the applicable terms and conditions of sale and delivery available on LINAK websites.

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Introduction

Ideal electric actuator for applications with short linear movements. A practical, cost-effective alternative to small-scale hydraulic and pneumatic systems.

Safety instructions

Please read this safety information carefully.

Be aware of the following three symbols throughout the document:

Warning!
Failing to follow these instructions can cause accidents resulting in serious personal injury.

Recommendations
Failing to follow these instructions can result in the actuator suffering damage or being ruined.

Additional information
Usage tips or additional information that is important in connection with the use of the actuator.

Furthermore, ensure that all staff who are to connect, mount, or use the actuator are in possession of the necessary information and that they have access to this document.

Persons who do not have the necessary experience or knowledge of the product/products must not use the product/products. Besides, persons with reduced physical or mental abilities must not use the product/products, unless they are under surveillance or they have been thoroughly instructed in the use of the apparatus by a person who is responsible for the safety of these persons.

Moreover, children must be under surveillance to ensure that they do not play with the product.

Before you start mounting/dismounting, ensure that the following points are observed:

- The actuator is not in operation.
- The actuator is free from loads that could be released during this work.

Before you put the actuator into operation, check the following:

- The actuator is correctly mounted as indicated in the relevant user instructions.
- The equipment can be freely moved over the actuator's whole working area.
- The actuator is connected to a mains electricity supply/transformer with the correct voltage which is dimensioned and adapted to the actuator in question.
- Ensure that the voltage applied matches to the voltage specified on the actuator label.
- Ensure that the connection bolts can withstand the wear.
- Ensure that the connection bolts are secured safely.

During operation, please be aware of the following:

- Listen for unusual sounds and watch out for uneven running. Stop the actuator immediately if anything unusual is observed.
- Do not sideload the actuator.
- Only use the actuator within the specified working limits.
- Do not step on or kick the actuator.

When the equipment is not in use:

- Switch off the mains supply in order to prevent unintentional operation.
- Check regularly for extraordinary wear.

Classification

The equipment is not suitable for use in the presence of a flammable anaesthetic mixture with air or with oxygen or nitrous oxide.

Warnings

- Do not sideload the actuator.
- When mounting the actuator in the application ensure that the bolts can withstand the wear and that they are secured safely.
- If irregularities are observed, the actuator must be replaced.

Recommendations

- Do not place load on the actuator housing.
- Prevent impact or blows, or any other form of stress to the housing.
- Ensure that the duty cycle and the usage temperatures for LA12 actuators are respected.
- Ensure that the cable cannot be squeezed, pulled or subjected to any other stress.
- Furthermore, it will be good practice to ensure that the actuator is fully retracted in the “normal” position. The reason is that there will be a vacuum inside the actuator if it is extended which over time can lead to water entering the actuator.

Features

- Colour: Black
- High-strength plastic housing
- Static safety factor: 2.0
- Noise level max. 60 dB(A). Measuring method: DS/EN ISO 3743-1 (actuator not loaded)
- Weight: 0.75 kg
  (Cable not included; weight varies by selected options)

Options in general

- Protection class: IPX1 or IP66
  Please note: If there is a need for IP69K, dynamic or outdoor use, the actuator LA14 should be chosen
- 12 V / 24 V DC permanent magnetic motor
- Max. load 750 N
- Max. speed up to 40 mm/sec. depending on load and spindle pitch
- Stroke length from 19 to 130 mm
- Back fixture in high-strength plastic, aluminium or stainless steel available in 2 different positions: 0° or 90° (factory mounted)
- Inner tube with integrated rod eye in high-strength plastic
- Straight cables with various plug types
- Stainless steel inner tube and piston rod eye
- Built-in endstop switches
- Endstop reached signals
- IC options including:
  - IC - Integrated Controller
  - Hall sensor
  - Analogue or digital feedback for precise positioning
  - Mechanical potentiometer (max. 100 mm stroke length)
  - Ready signal for diagnostics

Usage

- Duty cycle at 750 N and 2 mm pitch is max. 10%
  Duty cycle at 300 N and 4 mm pitch is max. 40%
  Duty cycle at 200 N and 6 mm pitch is max. 60%
  The duty cycles are valid for operation within an ambient temperature of +5 °C to +40 °C

Please note: For actuators with short stroke length, low load, and infrequent operation where running time is critical, variations in running time may occur over time.
To ensure the optimal solution for your application, contact LINAK A/S.

- Ambient operating temperature: -20 °C to +60 °C, full performance from +5 °C to +40 °C
- Storage temperature: -40 °C to +105 °C

Ordering example

12 1 0 00 - 1 XXX 12 0 0

Actuator type

12 = LA12

Back fixture type and orientation

Plastic

1 = 0°
2 = 90°

Aluminium

3 = 0° (012095)
4 = 90° (012095)

Stainless steel AISI 304

5 = 0° (012114)
6 = 90° (012114)

X = Special

Feedback

Standard actuator feedback options

0 = None
B = Analogue feedback 0 - 10 V
C = Analogue feedback 0.5 - 4.5 V
P = Potentiometer max. 100 mm stroke

IC actuator feedback options

D = None (No EOS out)
F = Analogue feedback 0 - 10 V
K = Analogue feedback 0.5 - 4.5 V
S = Single Hall feedback XOR (10-pole magnet)
T = Potentiometer 0 - 10 V / max. 100 mm stroke

Material

00 = Plastic inner tube and plastic eye
02 = Stainless steel inner tube and stainless steel eye with bushings ø10.2 (AISI 303) / 031923
03 = Stainless steel inner tube and stainless steel eye with bushings ø10.2 (AISI 304) / 0301244
0X = Special

Spindle type

1 = 2 mm
2 = 4 mm
3 = 6 mm

Stroke length

XXX = mm
min. 019 mm / max. 130 mm (in steps of 1 mm)
Recommended versions: 040, 070, 100 and 130

Motor type

12 = 12 V DC motor
24 = 24 V DC motor

IP

0 = IPX1
2 = IP66

Ordering example

12 1 0 00 - 1 XXX 12 0 0

Cable

No feedback

0 = Black straight 0.75 m
1 = Black straight 2.3 m Jack
I = Black straight 0.75 m Deutsch moulded
J = Black straight 0.75 m Deutsch
K = Black straight 0.75 m AMP
L = Black straight 0.75 m AMP moulded

With potentiometer

0 = 5-core black straight 0.93 m
J = 5-core black straight 0.93 m Deutsch
K = 5-core black straight 0.93 m AMP

With analogue feedback

0 = 5-core black straight 0.93 m
I = 5-core black straight 0.93 m Deutsch moulded
J = 5-core black straight 0.93 m Deutsch
K = 5-core black straight 0.93 m AMP

With IC

8 = 8-core black straight 2.3 m
K = 8-core black straight 2.3 m AMP
X = Special

Technical specifications

12 V

Type	Load max. (N)	Self-lock max. (Push) (N)	Self-lock max. (Pull) (N)	Pitch (mm/ spindle rev.)	Speed (mm/s)		Consumption (A)	
					No load	Full load	No load	Full load
12XX00-1XXX12XX	750	750	375	2	14	5	1.75	4.6
12XX00-2XXX12XX	300	300	150	4	27	16	1.75	2.5
12XX00-3XXX12XX	200	200	100	6	40	28	1.75	2.2

24 V

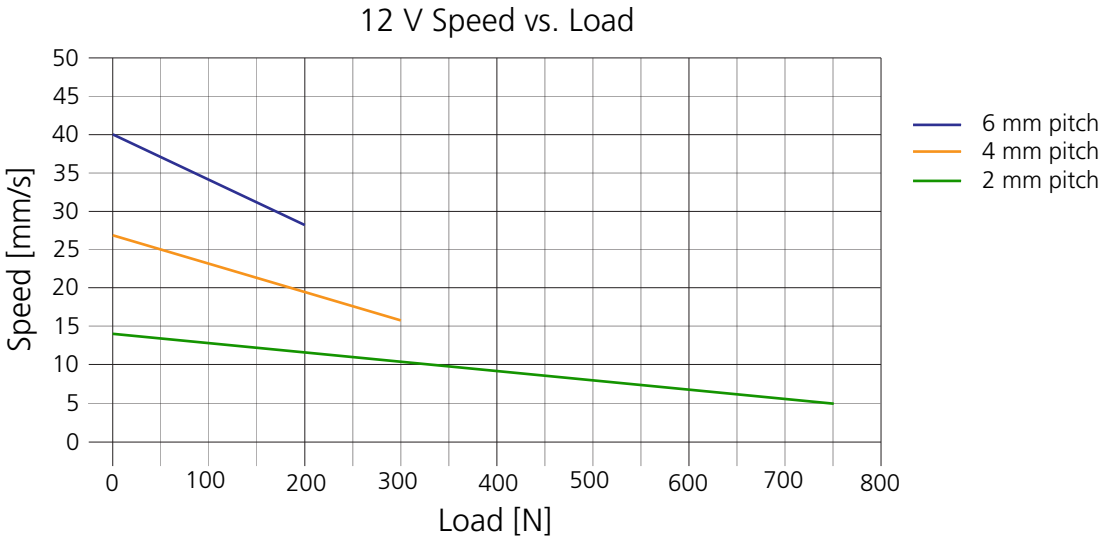
Type	Load max. (N)	Self-lock max. (Push) (N)	Self-lock max. (Pull) (N)	Pitch (mm/ spindle rev.)	Speed (mm/s)		Consumption (A)	
					No load	Full load	No load	Full load
12XX00-1XXX24XX	750	750	375	2	14	6	0.75	2.2
12XX00-2XXX24XX	300	300	150	4	27	16	0.75	1.5
12XX00-3XXX24XX	200	200	100	6	40	28	0.75	1.0

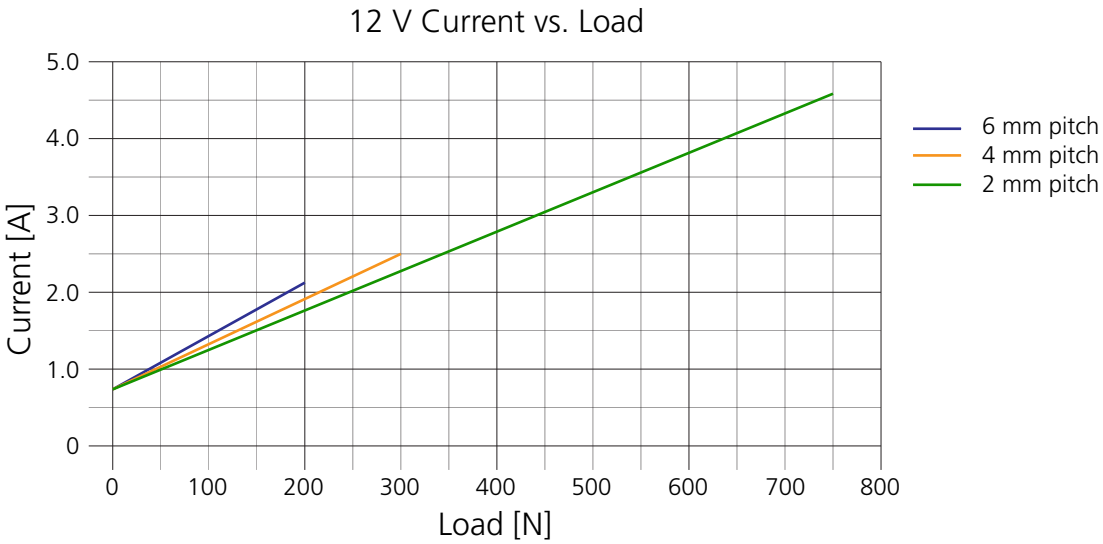
To ensure maximum self-locking ability, please make sure that the motor is shorted when stopped. Actuators with Integrated Controller provide this feature, so long as the actuator is powered.

The typical values can have a variation of ± 20% on the current values and ± 10% on the speed values. Measurements are made with an actuator in connection with a stable power supply and an ambient temperature of 20 °C.

Speed and current curves

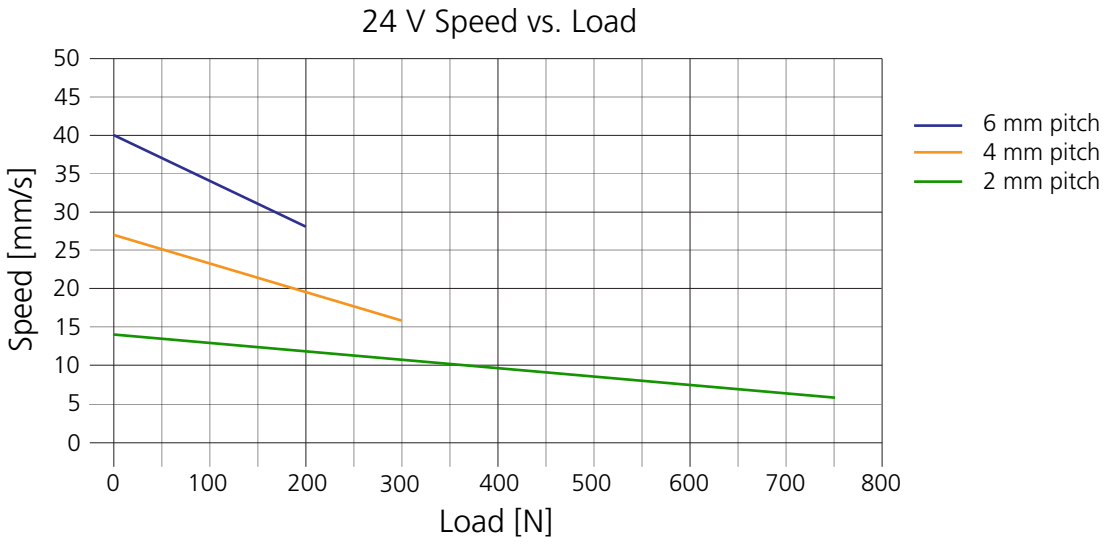
The typical values below are made with a nominal power supply of 12 V DC and an ambient temperature of 20°C.

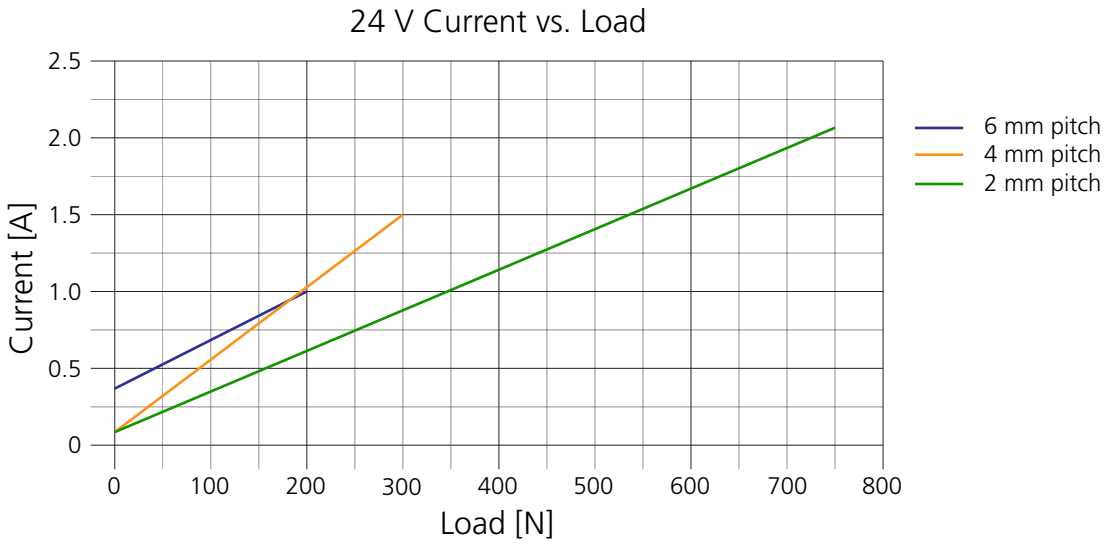




Speed and current curves

The typical values below are made with a nominal power supply of 24 V DC and an ambient temperature of 20°C.





Graphs for duty cycle

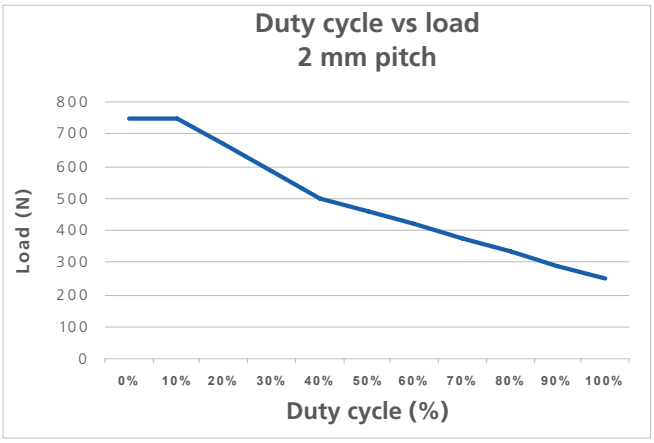
The graphs on the next page show which duty cycle can be expected compared to the load. The measurements for the graphs have been made with an ambient temperature of 20°C. If the actuator is used in a higher ambient temperature, the duty cycle will decrease.

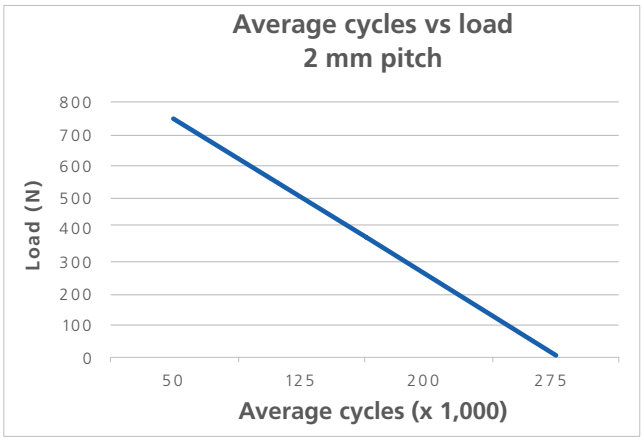
Test conditions for duty cycle and average lifetime

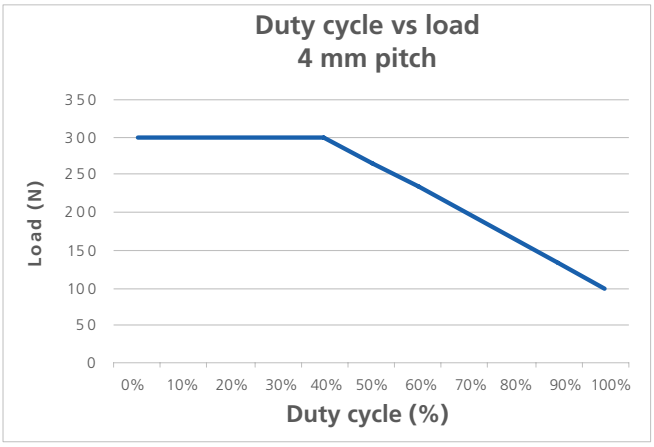
The conditions of the tests carried out at LINAK A/S are as follows:

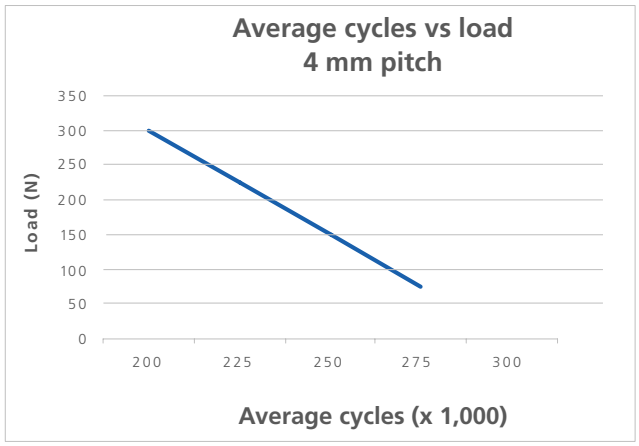
- Actuator running at full stroke (between both endstop switches)
- Actuator running at max. recommended duty cycle
- Continuous operation 24 hours a day
- No vibrations
- Relatively clean environment (no extreme dust or dirt)

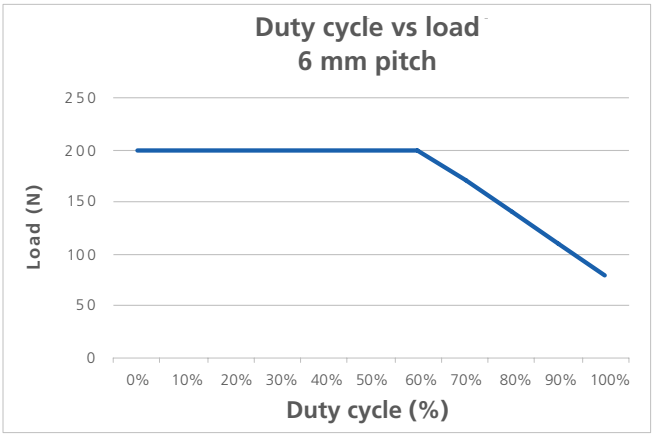
Duty cycle - 24 V

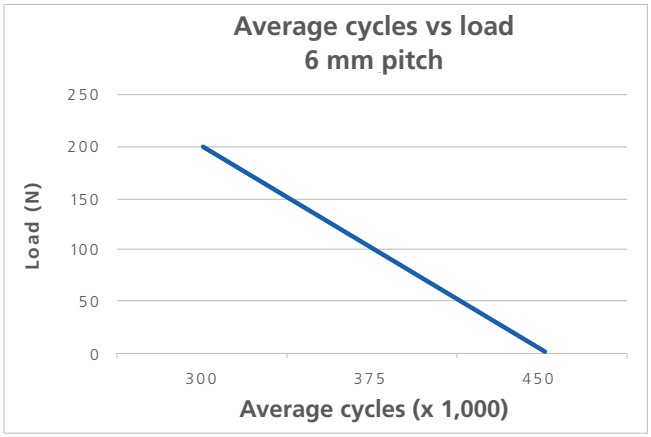












Current cut-offs

The principle behind the current cut-off measurement is an 'above limit' and a 'below limit' accumulating counter. When the time-out counter reaches a specific value the current cut-off goes into effect. The time-out value is pre-set at 500 ms.

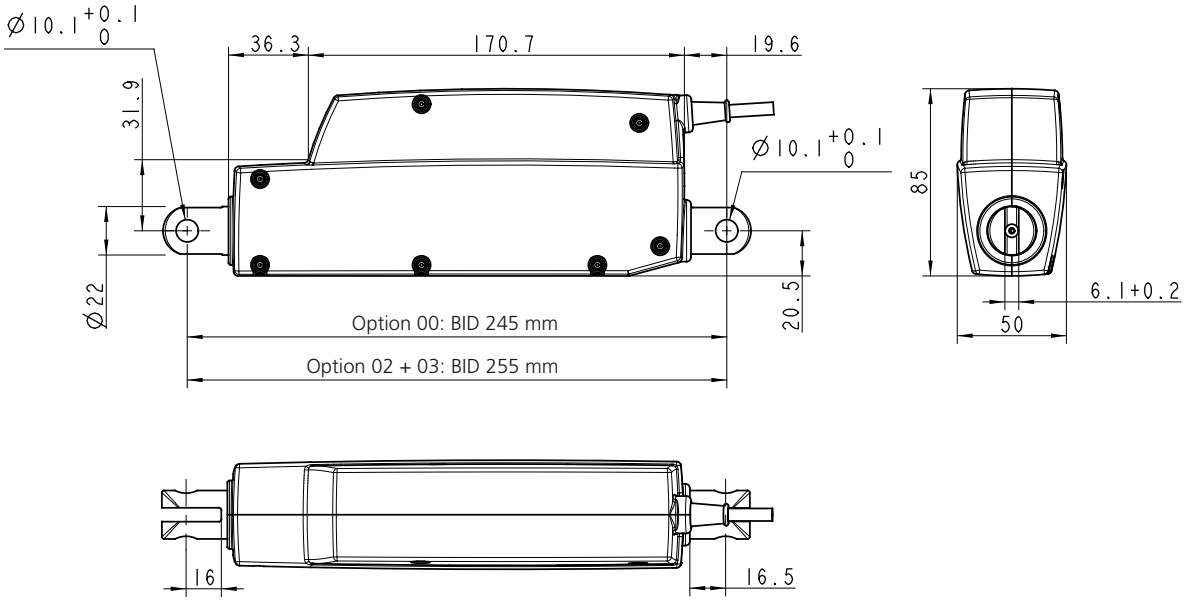
IC option		12 V	24 V	Reference temperature: 0°C
D F K S T	None Analogue feedback 0-10 V Analogue feedback 0.5 - 4.5 V Single Hall feedback Potentiometer 0-10 V	5.5 A	5.5 A	Above
		11 A	11 A	Below

Stroke and built-in tolerances

Platform options	Descriptions	Stroke tolerance	Example for 100 mm stroke	BID tolerance	BID examples
12XX00-XXXXXXXX	Standard feedback	+2/-2 mm	98 to 102 mm	+2/-2 mm	243 to 247 mm
12XX02-XXXXXXXX 12XX03-XXXXXXXX	Standard feedback	+2/-2 mm	98 to 102 mm	+2/-2 mm	253 to 257 mm
12XX00-XXXXXXXX	IC feedback	+1/-3 mm	98 to 102 mm	+2/-2 mm	243 to 247 mm
12XX02-XXXXXXXX 12XX03-XXXXXXXX	IC feedback	+1/-3 mm	98 to 102 mm	+2/-2 mm	253 to 257 mm

Built-in dimensions

All dimensions are in mm.



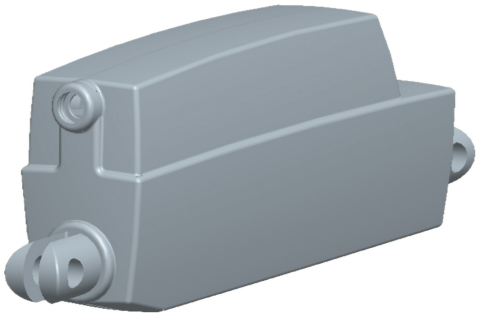
Shown with piston rod eye option “00” and back fixture option “1”

Built-in dimensions

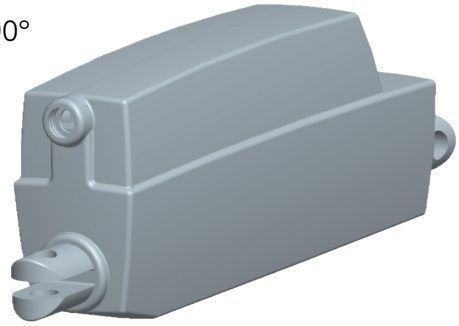
	Piston rod eye		
Back fixture	**Option “02”**	**Option “03”**	**Piston rod eye without slot**
Option “3”	255 mm ± 2 mm	255 mm ± 2 mm	245 mm ± 2 mm
Option “4”	255 mm ± 2 mm	255 mm ± 2 mm	245 mm ± 2 mm
Option “5”	255 mm ± 2 mm	255 mm ± 2 mm	245 mm ± 2 mm
Option “6”	255 mm ± 2 mm	255 mm ± 2 mm	245 mm ± 2 mm

Back fixture orientation

Position 1 = 0°



Position 2 = 90°



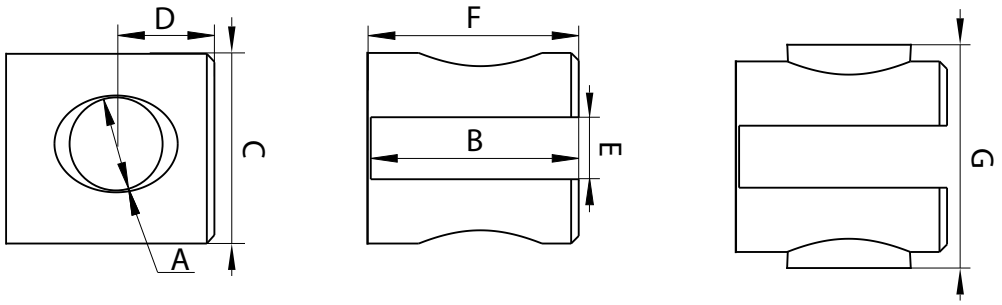
Excess silicone may occur on the housing of the actuator as a natural part of the assembly process.

The piston rod eye is only allowed in 0 or 180 degrees orientation.

Piston rod eyes

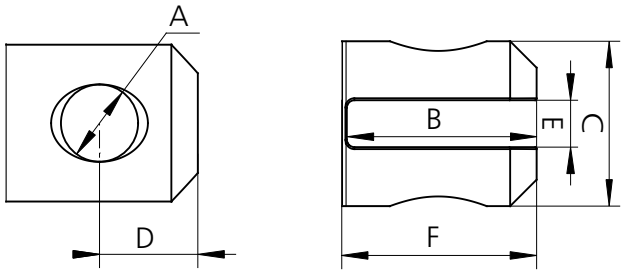
All dimensions are in mm. The piston rod eye is only allowed to turn 0 - 180°.

Option	Piston rod eye	Material	A	B	C	D	E	F (~)	G	Bushing	Change in BiD	P/N
00	Slotted	Plastic	10.2 ±0.1	27	21.9 ±0.1	11 ±0.13	6.2 ±0.1	30 ±0.2	-	No	0	012130
02	Slotted	AISI 303	10.2 ±0.1	28.2 ±0.1	21.8 ±0.1	11 ±0.1	6.2 ±0.2	30 ±0.2	26	Yes	+10	031923
03	Slotted	AISI 304	10.2 ±0.1	28.2 ±0.1	21.25 ±0.15	11 ±0.1	6.2 ±0.2	30 ±0.2	25.3	Yes	+10	0301244



Back fixtures

Option	Back fixture	Material	A	B	C	D	E	Bushing	Change in BiD	Position	P/N
3	Slotted	Aluminium	10.17 ±0.15	26	22 -0.4	10 ±0.2	6.15 ±0.1	No	0	0°	012095
4	Slotted	Aluminium	10.17 ±0.15	26	22 -0.4	11 ±0.1	6.15 ±0.1	No	0	90°	012095
5	Slotted	AISI 304	10.17 ±0.15	26	22 -0.4	11 ±0.1	6.2 ±0.1	No	0	0°	012114
6	Slotted	AISI 304	10.17 ±0.15	26	22 -0.4	11 ±0.1	6.2 ±0.1	No	0	90°	012114

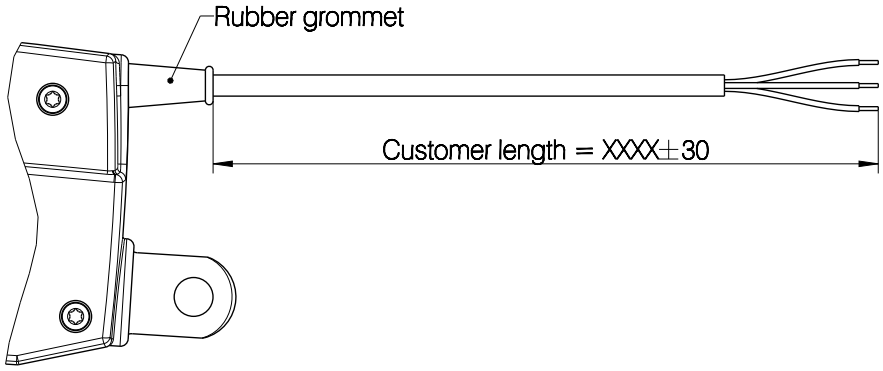


BID = 245 mm - 255 mm

Cables

Standard cable item numbers

Platform	Length (mm) outside the actuator	Core mm²
12X0XX-XXXXXXX0	750	2 x 0.75
12XBXX-XXXXXXX0	930	5 x 0.75
12XCXX-XXXXXXX0	930	5 x 0.75
12XPXX-XXXXXXX0	930	5 x 0.32
All actuators with IC	2,300	8 x 0.32



Electrical installation

- To ensure maximum self-locking ability, please make sure that the motor is shorted when stopped. Actuators with Integrated Controller provide this feature, so long as the actuator is powered.
- When using soft stop on a DC-motor, a short peak of higher voltage will be sent back towards the power supply. It is important when selecting the power supply that it does not turn off the output, when this backwards load dump occurs.
- The power supply for actuators without integrated controller must be monitored externally and cut off in case of current overload.

Environmental tests - Climatic

Test	Specification	Comment	TRD number
Degrees of protection	EN60529 - IP6X	IP6X - Dust: Dust-tight, no ingress of dust. Actuator is not activated.	TRD2351
	EN60529 - IPX6	IPX6 - Water: Ingress of water in quantities causing harmful effects is not allowed. Duration: 100 litres per minute in 3 minutes. Actuator is not activated.	TRD2249
	EN60529 - IPX6-dynamic	IPX6 - Connected actuator: Actuator is driving in and out for 3 min. 100 (l/min.) jet of water is placed at the wiper ring for 3 min.	TRD2349
Salt mist	EN60068-2-52 (Kb)	Dynamic salt spray test: Salt solution: 5% sodium chloride (NaCl). 4 spraying periods, each of 2 hours. Humidity storage 20 days after each. Actuator is power up connected during the test. Exposure time: 10,000 cycles.	TRD2570

Environmental tests - Mechanical

Test	Specification	Comment	TRD Number
Low temperature soak		Unit powered and operating for 96 hrs at -40 °C	TRD2232
High temperature soak		Unit powered and operating for 96 hrs at 105 °C	TRD2233
Mechanical shock (handling) - drop test	BS2011 Part 2.1 Eb.	400 mm drop onto hardwood bench, minimum 40 mm thick, onto all practical edges and faces.	TRD2243
Mechanical shock (operational)		100 off 400 m/sec^2 6 ms shock pulses - in 3 axes	TRD2229 PART 1
Vibration (random)		24 hours in each axis. Breakpoint freq: 10 Hz at 0.005 g2/Hz 150 Hz at 0.060 g2/Hz 220 Hz at 0.080 g2/Hz 350 Hz at 0.040 g2/Hz	TRD2229 PART 2 TRD 3802
Vibration (resonant search)		10 Hz - 2 KHz at 4G Rate = 1 octave/min.	TRD2229 PART 3 TRD3802
Bump		40 G in 6 ms x 100 in each direction pr. axis.	TRD 3802

Environmental tests - Electrical

Standard	Specification	Focus on
EN/IEC 60204-1: 2006 +A1: 2009	Safety of machinery - Electrical equipment of machines - Part 1: General requirements	• INDUSTRIAL AUTOMATION
EN/IEC 60204-32: 2008	Safety of machinery - Electrical equipment of machines - Part 32: Requirements for hoisting machines	• INDUSTRIAL AUTOMATION • PLATFORMS AND LIFTS
EN/IEC 61000-6-1: 2007	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments	• INDUSTRIAL AUTOMATION
EN/IEC 61000-6-2: 2005	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments	• INDUSTRIAL AUTOMATION
EN/IEC 61000-6-3: 2007 + A1:2011	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments	• INDUSTRIAL AUTOMATION
EN/IEC 61000-6-4: 2007 + A1:2011	Electromagnetic compatibility (EMC) - Part 6: Generic standards - Section 4: Emission standard for industrial environments	• INDUSTRIAL AUTOMATION

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