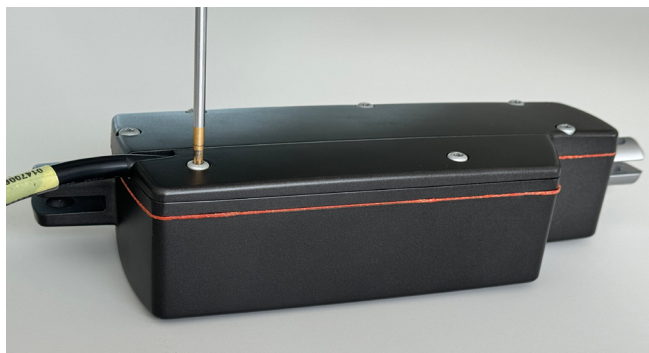


Replacing an ATEX cable



Loosen the screw to disassemble the cable relief.



Remove the cable relief by pulling it in the same direction as the screw.



Remove the plugged cable.



Insert the cable (0147006-xxxx) with an ATEX-approved O-ring.

The colour of the O-ring must be **Brown**.

Replacing an ATEX cable



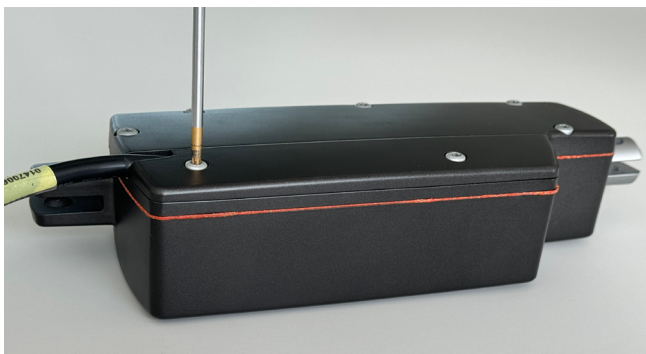
Correct mounting of cable

The brown O-ring is not visible.



Incorrect mounting of cable

The brown O-ring is visible and the application is NOT tight.



Place the cable relief on the actuator housing, then place and tighten the screw.

Fasten it to $3 \text{ Nm} \pm 0.5 \text{ Nm}$

Key to Symbols

The following symbols are used on the LA14IO labels:

Symbol	Norms	Approvals
	WEEE Directive 2002/96/EC	Wheelie bin
	Compliance to all relevant EC directives	CE
	Regulatory Compliance Mark: The Australian safety/EMC regulations	RCM
	China Pollution control mark (also indicates recyclability)	China RoHS legislation
	ISO 7000- 0434A: Caution	
	Operating instructions	

Ordering Example

14 020 040 00 00 0 A 0 6 = 1 1 0 0 245 0 C S 0 0 0

Type	14	=	LA14IO		
Spindle pitch	020	=	2 mm		
	040	=	4 mm		
Stroke length	XXX	=	mm		
Safety nut	00	=	None		
Feedback	00	=	None		
	0P	=	Potentiometer		
	0K	=	Single Hall		
	0A	=	Hall potentiometer		
	0F	=	PWM		
Platform	0	=	None	B	= I/O Basic
	3	=	IC	C	= I/O Customised
	6	=	LIN bus	F	= I/O Full
	7	=	CAN bus (J1939)	X	= Special
	8	=	CANopen		
Motor type	A	=	12 V DC		
	B	=	24 V DC		
	C	=	12 V DC Fast		
	D	=	24 V DC Fast		
	X	=	Other		
Endstop	0	=	Power switch		
	1	=	Signal switch		
	2	=	Zero Point		
IP degree	6	=	IP66	9	= Harsh environment
	T	=	ATEX		+ IP66/IP69K
Colour	=	=	Dark Olive Grey (NCS S7000-N)		
Back fixture	1	=	0°	A	= 0° with POM
	2	=	90°	B	= 90° with POM
Piston rod eye	1	=	Ø10.2 Zinc-coated steel	A	= Ø10.2 AISI 304
	2	=	Ø12.3 Zinc-coated steel	C	= Ø8.1 AISI 304 + bush
	3	=	Ø12.3 AISI 304	D	= Ø10.2 AISI 304 + bush
	4	=	Ø12.3 AISI 303	E	= Ø10.2 AISI 303 + bush
	5	=	Ø8.1 Zinc-coated steel + bush	F	= Female adapter M8
	6	=	Ø10.2 Zinc-coated steel + bush	K	= Ball eye Ø10H7
				L	= Ball eye Ø12H7
				M	= Male adapter M12 AISI 304
				X	= Special
Position	0	=	No endstop reached signal		
	1	=	Endstop reached signal		

Ordering Example

14 020 040 00 00 0 A 0 6 = 1 1 0 0 245 0 C S 0 0 0

Brake **0** = **None**

BID **245** = **mm** (min. length)
 XXX = mm

Fire category **0** = **None**

Plug type 0 = None
 C = **Flying leads**
 I = Deutsch (DT4) Moulded
 J = Deutsch (DT4)
 K = AMP Superseal
 L = AMP Superseal Moulded
 X = Special

Cable 0 = None
 S = **Straight 0.75 m (8-core or 2-core when no feedback is needed)**
 T = Straight 1.5 m (8-core or 2-core when no feedback is needed)
 R = Straight 5 m (8-core or 2-core when no feedback is needed)
 V = Straight 10 m (8-core or 2-core when no feedback is needed)
 Y = Straight 1.5 m (11-core)
 Z = Straight 5 m (11-core)
 X = Special

Safety factor **0** = **2.0**

Feedback level

None

0 = None

A = 0-10 V

B = 0.5-4.5 V

C = 4-20 mA

D = PWM 10-90%

E = PWM 20-80%

F = Special

CAN / CANopen / LIN bus

0 = None

IC Basic

8 = None

IC Advanced and I/O

0 = **None**

G = 0-10 V

H = 0.5-4.5 V

J = 4-20 mA

K = PWM 10-90%
 (Only IC Advanced)

L = PWM 20-80%
 (Only IC Advanced)

X = Special

IC Parallel (Not I/O)

Z = Parallel

Parallel mode **0** = **Non-Critical Parallel (Not for I/O)**

2-8 = Critical Parallel (Count of actuators)

Maintenance

- The actuator must be cleaned at regular intervals to remove dust and dirt, and it must be inspected for mechanical damages or wear.
- Inspect attachment points, wires, piston rod, cabinet, and plug. Also check whether the actuator functions correctly.
- To ensure that the pre-greased inner tube remains lubricated, the actuator must only be washed down when the piston rod is fully retracted.
- The actuator is a closed unit and therefore requires no internal maintenance.
- In order to maintain a proper performance of the spherical eyes and to increase the resistance against environmental wear, we strongly recommend that the spherical eyes (ball bearings) mounted on actuators from LINAK® are greased with anticorrosive grease or similar.

Repair

Only an authorised LINAK service centre should repair LINAK actuator systems. Systems to be repaired under warranty must be sent to an authorised LINAK service centre.

In order to avoid the risk of malfunction, all actuator repairs must only be carried out by an authorised LINAK Service shop or repairer, as special tools and parts must be used.

If a system is opened by unauthorised personel, there is a risk that it may malfunction at a later date.

Main Groups of Disposal

LINAK's products may be disposed of, possibly by dividing them into different waste groups for recycling or combustion.

We recommend that our product is disassembled as much as possible at the disposal and recycled when possible.

Product	Metal scrap	Cable scrap	Electronic scrap	Plastic recycling or combustion
LA14IO	X	X	X	X

Warranty

There is an 18 months' warranty on TECHLINE™ products against manufacturing faults calculated from the production date of the individual products (see label). The LINAK® warranty is only valid in so far as the equipment has been used and maintained correctly and has not been tampered with. Furthermore, the actuator must not be exposed to violent treatment. In the event of this, the warranty will be ineffective/invalid. For further details, please see standard terms of sale and delivery for LINAK A/S.

Note:

Only an authorised LINAK® service centre should repair LINAK actuator systems. Systems to be repaired under warranty must be sent to an authorised LINAK service centre.

In order to avoid the risk of malfunction, all actuator repairs must only be carried out by an authorised LINAK Service shop or repairer, as special tools and parts must be used.

If a system is opened by unauthorised personnel there is a risk that it may malfunction at a later date.

The actuator is not to be opened by unauthorised personnel. In case the actuator is opened, the warranty will be invalid.

FCC Statement - LA14IO 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 licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

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

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) L'appareil ne doit pas produire de brouillage;
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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