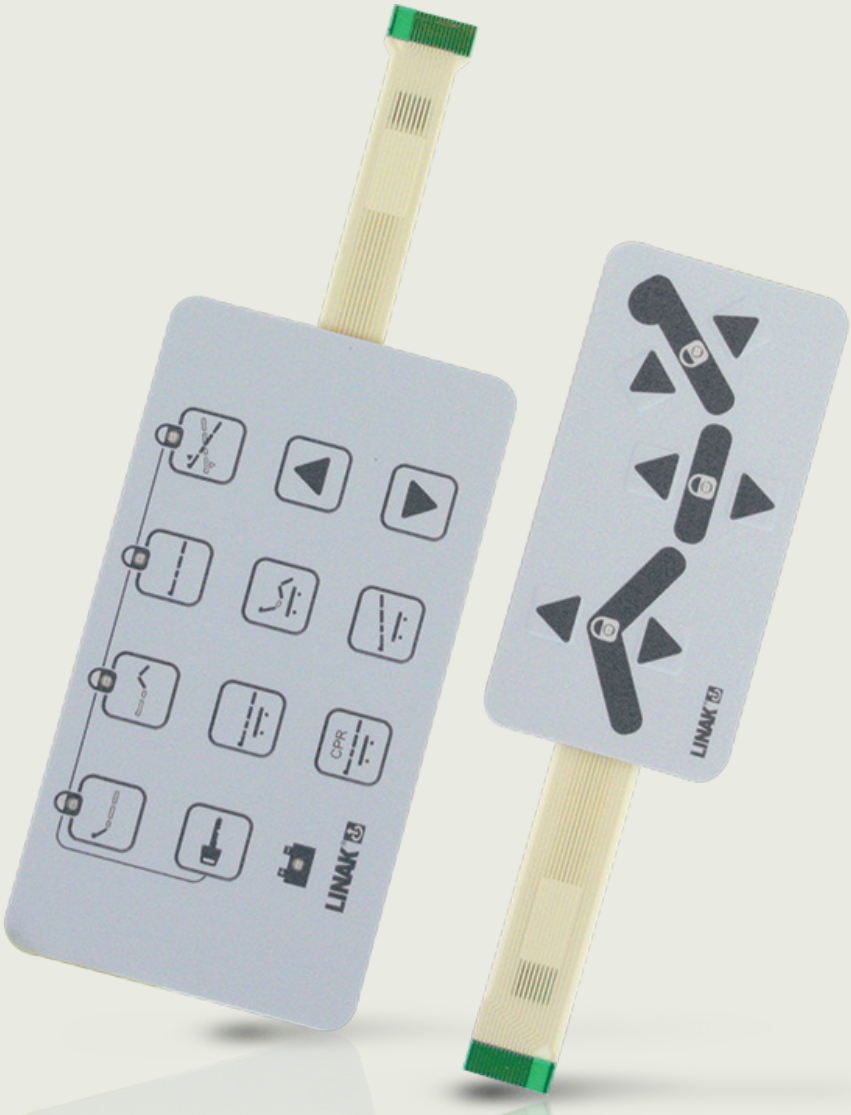
Attendant Control Keypad – ACK

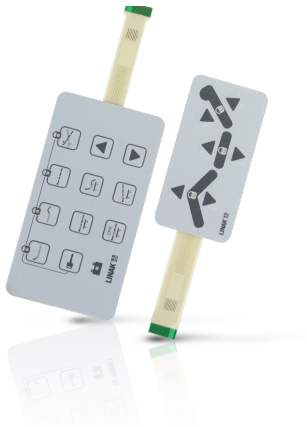
Data Sheet



Contents

Introduction **3**
Features and options **3**
Usage **3**
Ordering example **4**
Approvals and certifications **5**
Overview **6**
Tail connectors **7**
Key tail 7
LED tail 7
Dimensions **8**
Patient membrane front cover 8
Nurse membrane front cover 9
Membrane front cover (side view) 9
Standard front covers **10**
Front cover no.: 10ACK00S4 10
Front cover no.: 10ACK00S5 / 10ACK00S96 10
Front cover no.: 10ACK00S6 10
Front cover no.: 10ACK00S28 / 10ACK00S97 10

Introduction



With the OpenBus™ system it is possible to use ACK membrane front covers as attendant controls or hand controls integrated in the bed side rails.

There are two different variants of ACK: ACK1 and ACK3.

The ACK1 is a single membrane front cover, whereas the ACK3 comes with two membrane front covers, typically used on an inside side rail and an outside side rail.

ACK offers easy access to critical positioning functions and correct bed position in case of emergency. Another benefit is high adaptation to customer needs with customised key and diode layouts, and membrane front covers adapted to the requested design and colour.

Further benefits are included in the ACK3 version, as this offers double and flexible bed control for the patient and the nurse to give increased comfort and efficiency. ACK3 allows for full intuitive bed control with up to 2x15 keys and 2x7 LEDs.

Features and options

- The membrane front covers can be used as controls for nurse and patient
- Placed conveniently in the bed side rails allowing optimum ease of use
- Up to 15 keys and 7 LEDs possible with the ACK1
- Up to 2x15 keys and 2x7 LEDs possible with the ACK3
- Protection against single fault condition according to IEC 60601-1 when connected to a LINAK OpenBusTM control box
- An LED which indicates when the battery is being charged (yellow)
- There is no IP rating as standard. The customer must ensure a proper application design and build-in of the ACK unit to achieve the correct IP degree (e.g. IPX4).
- Connection to CB or MJB via a "modular jack" cable (6-wired)
- Possible to customise design and colours of the membrane front covers
- Possible to customise the layout of the keys and LEDs
- Possible to customise SW (LixEdit)

Usage

Operation temperature:	+5 °C to +40 °C
Storage temperature:	-10 °C to +50 °C
Compatibility:	Compatible with LINAK control boxes. Please contact LINAK.
Relative humidity:	20% to 80% – non-condensing
Atmospheric pressure:	700 to 1060 hPa
Meters above sea level:	Max. 3000 metres
Approvals:	- IEC60601-1 - ANSI/AAMI ES60601-1 - CAN/CSA-22.2 No 60601-1

Ordering example

AC K 0 0 01 01 0 C 1250

CABLE LENGTH:

0000	=	No cable
1250	=	6-wire straight (0964043-1250)
1800	=	6-wire straight (0964043-1800)
2500	=	6-wire straight (0964043-2500)

CABLE TYPE:

C	=	Modular Plug RAL 7035

OPTION

0	=	Normal Interface

FRONT COVER NUMBER:

00	=	No Front Cover
S0	=	10ACK00S28 (ACK1)
S4	=	10ACK00S4 (ACK1)
S5	=	10ACK00S5 (ACK1)
S6	=	10ACK00S6 (ACK1)
S7	=	10ACK00S5 + 10ACK00S4 (ACK3)
S8	=	10ACK00S6 + 10ACK00S28 (ACK3)
SA	=	10ACK00S96 + 10ACK00S4 (ACK3)
SB	=	10ACK00S97 + 10ACK00S6 (ACK3)

FUNCTIONALITY:

01	=	See overview
02	=	See overview
03	=	See overview
04	=	See overview
21	=	See overview
23	=	See overview

CHARGING INDICATOR:

0	=	No
1	=	Yes

BOARD TYPE:

0	=	Single (ACK1)
3	=	Dual Configurable (ACK3)

TYPE:

K	=	**K**eypad - (**A**ttendant **C**ontrol **K**eypad)

Attendant **C**ontrol

An electronic interface (PCBA), a membrane front cover and a cable are included when ordering an ACK – Attendant Control Keypad.

Approvals and certifications

For approval documentation, LINAK recommends specifying the product type instead of individual item numbers to ensure broader approval coverage and simplify future product changes.

Listed LINAK item for application approval: ACK

If this is not possible, we advise being as non-specific as possible when specifying LINAK products in your approval application:

Listed LINAK item for application approval: ACK**********

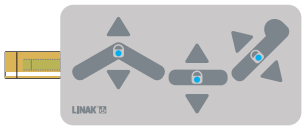
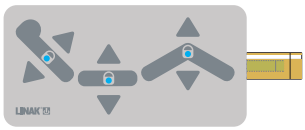
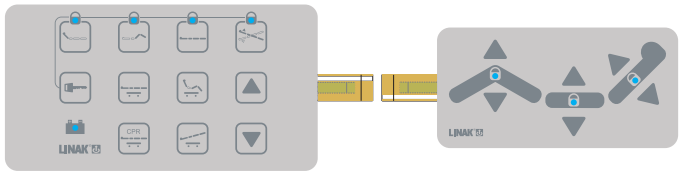
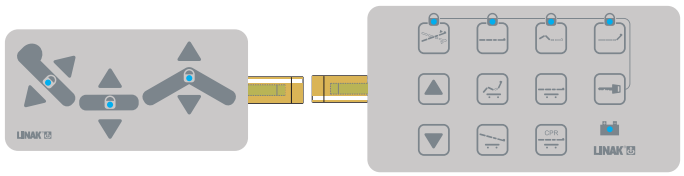
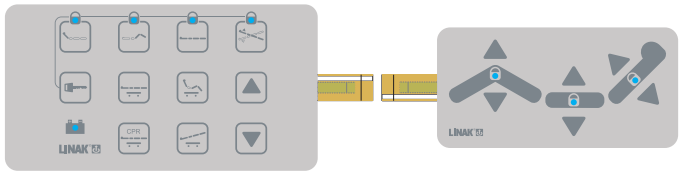
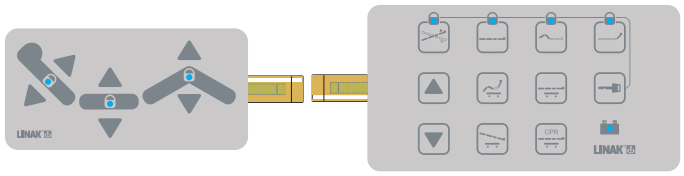
" * " is not safety critical and we recommend including a non-specific signifier such as an asterisk.

" S " is safety critical and represents a listed critical component in the product and cannot be left out.

For more information, please refer to "Approvals and certifications" in LINAK Application Design Recommendations found under User Manual for any given product on LINAK.com

Overview

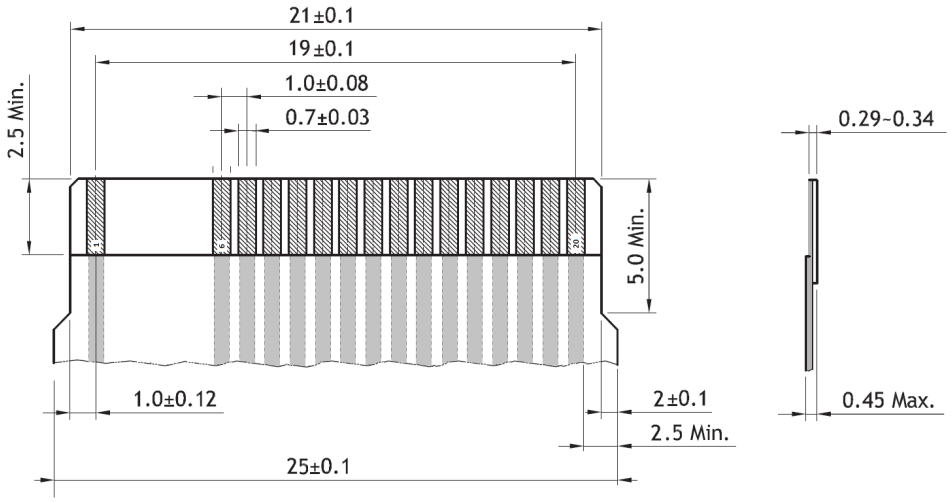
Please use the below membrane front cover and functionality guide for easy ordering.

ACK	Front cover no.	Func-tionality	Keys	LEDs	Graphics for ACK standard membrane front covers
ACK1	S0 = 10ACK00S28	04	11	5	
ACK1	S4 = 10ACK00S4	01	6	3	
ACK1	S5 = 10ACK00S5	02	11	5	
ACK1	S6 = 10ACK00S6	03	6	3	
ACK3	S7 = 10ACK00S5 + 10ACK00S4	21	11+6	5+3	
ACK3	S8 = 10ACK00S6 + 10ACK00S28	23	6+11	3+5	
ACK3	SA = 10ACK00S96* + 10ACK00S4	21	11+6	5+3	
ACK3	SB = 10ACK00S6 + 10ACK00S97*	23	6+11	3+5	

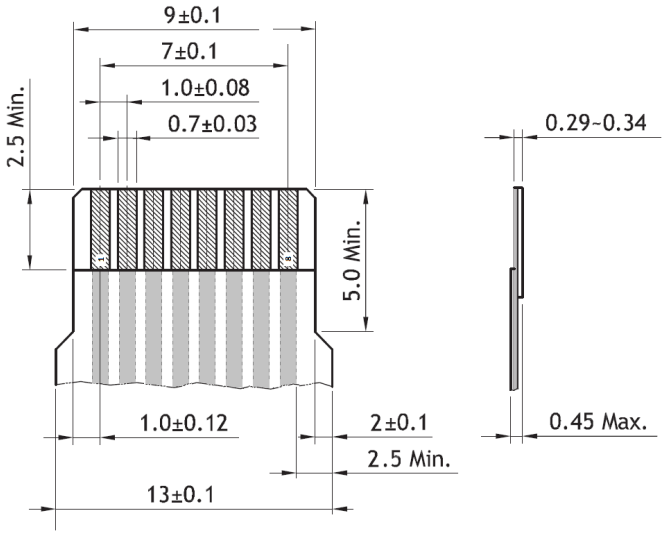
* with long tail (see dimensions)

Tail connectors

Key tail

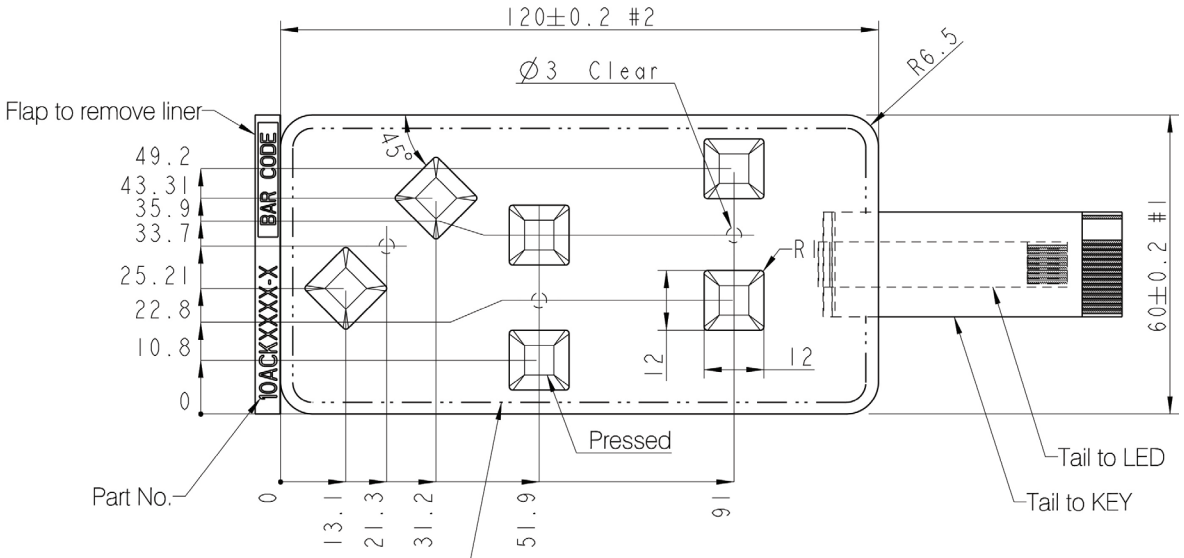


LED tail



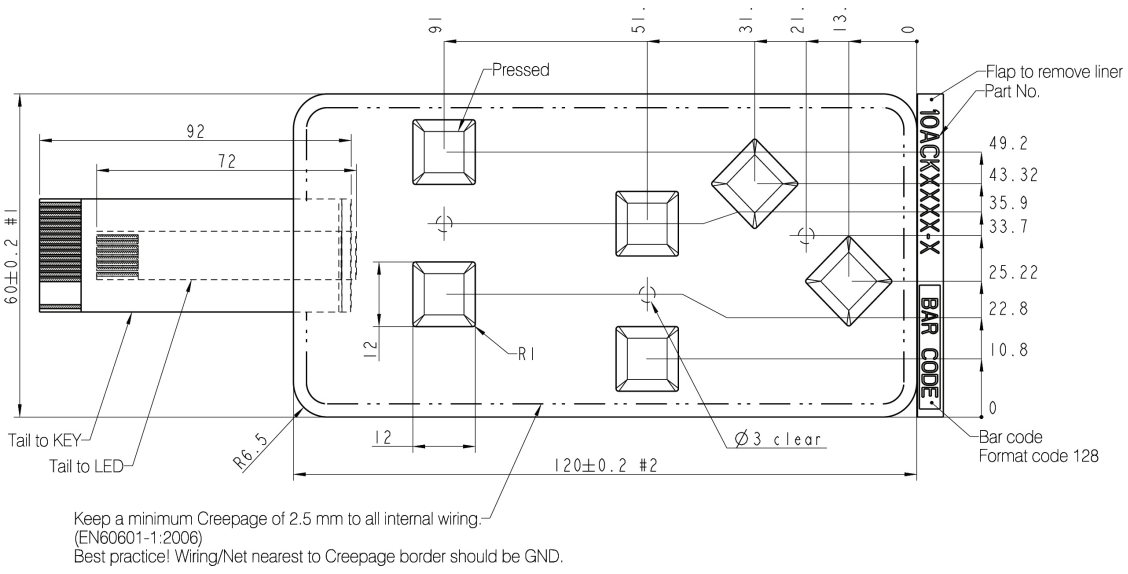
Dimensions

Patient membrane front cover



Keep a minimum Creepage of 2.5 mm to all internal wiring.
(EN60601-1:2006)
Best practice! Wiring/Net nearest to Creepage border should be GND.

Drawing: 0971003

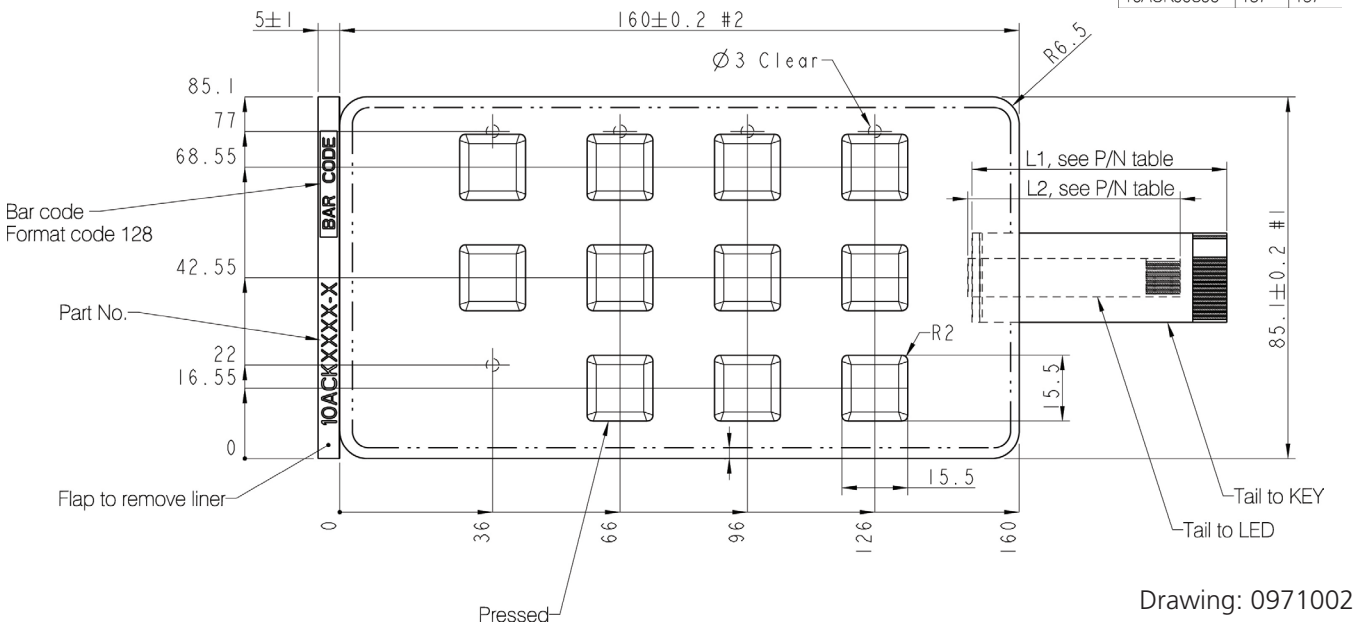


Keep a minimum Creepage of 2.5 mm to all internal wiring.
(EN60601-1:2006)
Best practice! Wiring/Net nearest to Creepage border should be GND.

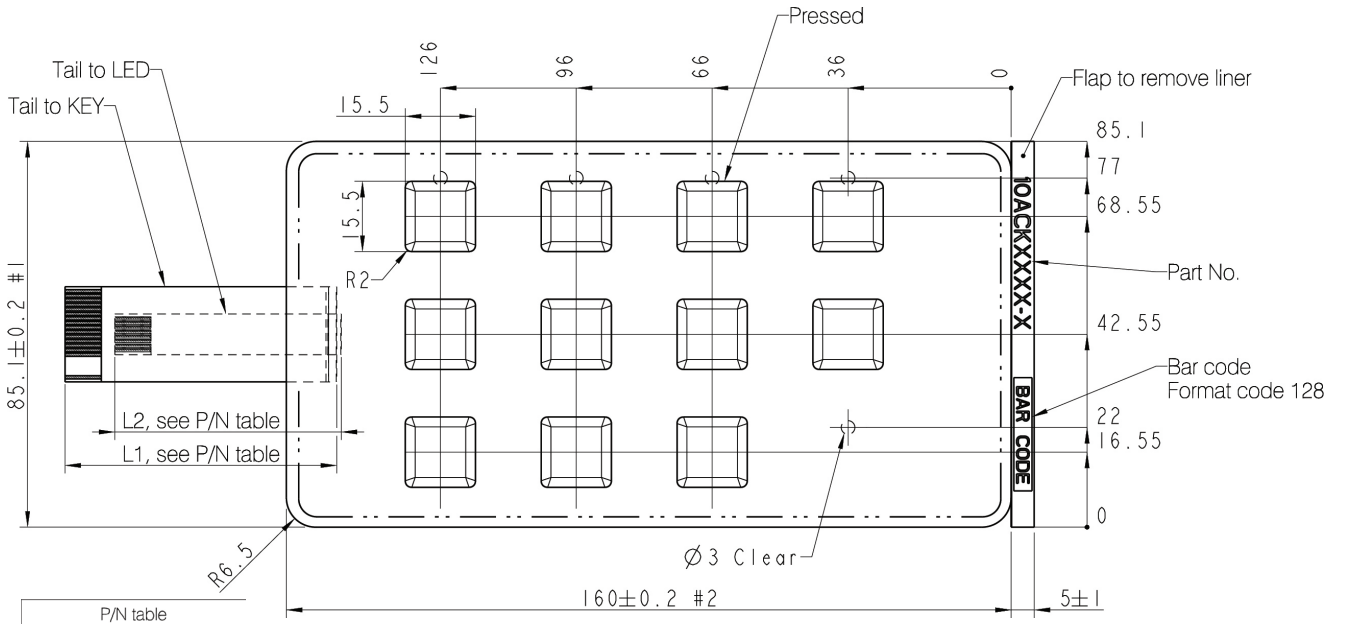
Drawing: 0971001

Nurse membrane front cover

P/N table		
LINAK P/N	L1	L2
10ACK00S5	92	72
10ACK00S96	157	137



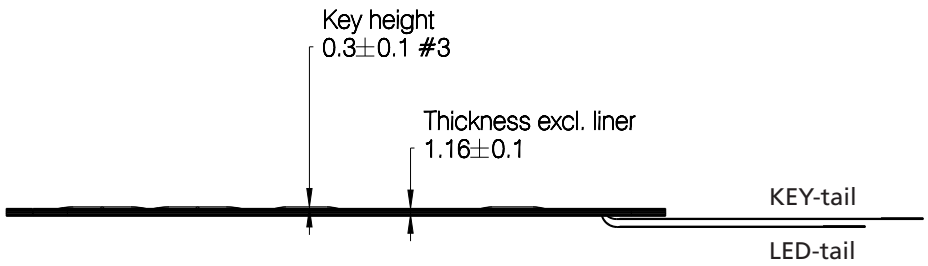
Drawing: 0971002



P/N table		
LINAK P/N	L1	L2
10ACK00S28	92	72
10ACK00S97	157	137

Drawing: 0971006

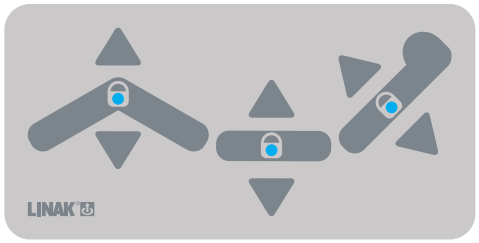
Membrane front cover (side view)



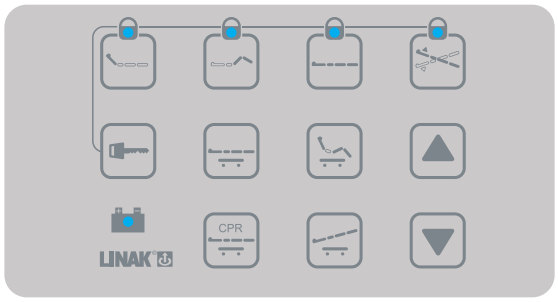
Drawing: 0971006

Standard front covers

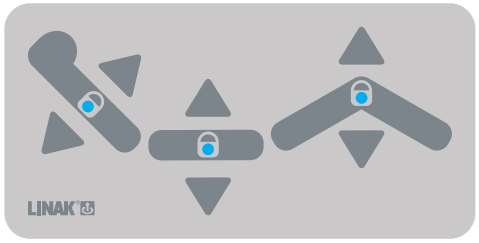
Front cover no.: 10ACK00S4



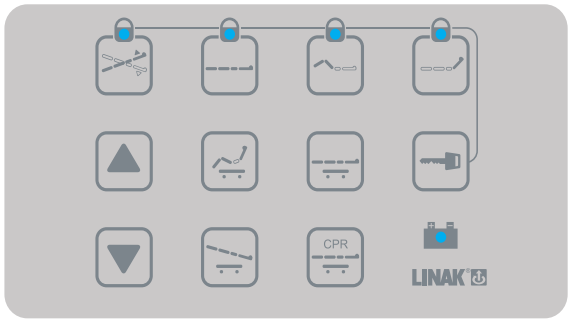
Front cover no.: 10ACK00S5 / 10ACK00S96



Front cover no.: 10ACK00S6



Front cover no.: 10ACK00S28 / 10ACK00S97



For customised membrane front covers please contact LINAK A/S.

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