## CONTROL BOX CB9 CARELINE ${ }^{\ominus}$

## Features:

- Connection of max. 4 actuators, type LA31/LA31R and LA34I LA34R, via 4-pole DIN sockets
- Compatible with the Rotary actuator, RA40 (only AD type)
- Extremely compact design
- Mains voltage: 100/120/230V AC $50-60 \mathrm{~Hz}$
- Duty cycle: Max. $10 \%$ or 2 min . continuous use followed by 18 min. not in use
- Output voltage 24V DC
- Ambient temperature: $+5^{\circ}$ to $+40^{\circ} \mathrm{C}$
- Protection class: IP54 or 66 (not for wash tunnels)
- Colour: Grey or black
- DIN-socket for handsets:
- Ax types: HB40, HB60, HB70, DP or FS
- Px types: HB4XE, HB5XE, HB60M (PMIPN versions), HB7XE/W, DPXE or DP1M
- 3.2 m exchangeable straight mains cable
- EOP = Electronic Overload Protection (only AC, $A D, A F, A G, A S$ and Px types)
- AD and AG types CH1+2 via common current cut off; CH3 + 4 has no EOP!
- AS type via individual current cut off
- Px type via pulse measurement
- Medically approved according to EN 60601-1/ UL 2601-1
- Locking mechanism for DIN plugs and mains cable
- Electronic protection of the relays for extended lifetime (EAS); available on AC, AD, $A E, A F, A G, A H$ and $P x$ (not $P M$ and $P N$ ) types
- Double power control (FET + relay) monitoring on all $A C, A D$ and $A E$ types.
- Class 1 or 2 protection
- Power supply indication via an LED. Not availabe with mains cut-off
- Exchangeable mains fuse from outside
- External battery back up and internal charger (only $A C, A D, A E, A F, A G$ and $A H$ types; use notation $A$ for ordering)
- External battery back-up (no internal charger) (only $A C, A D, A E, A F, A G$ and $A H$ types; use notation $B$ for ordering)
- All functionalities are compatible with mains cut-off


WE IMPROVE YOUR LIFE

## Features only available in Px types:

- Choice of 8 different standard software packages. All standard software packages have either impulse memory or memory. To use memory in general a handset with memory has to be chosen.
- Approved according to EN 60335-1
- Energy saving function (the control box restores to power down when not operated)
- Compact high power toroidal transformer with low power consumption and low electromagnetic emission.
- All actuators, which are used together with Px types, must be equipped with reed switch and connected with a DINplug.

AC and AF : Means common measurement on $\mathrm{CH} 1, \mathrm{CH} 2, \mathrm{CH} 3$ and and CH4. If the total current exceeds 5 A all channels will be cut off.
$A D$ and AG: Means a common current measurement on $\mathrm{CH} 1+2$.
The current will be cut off when the total current on both channels reaches approx. 3.4A.

Note: CH1 $+2=$ RA40 connection and CH3+4 = LA31/LA34 connection.
AS: Means an individual current measurement on $\mathrm{CH} 1, \mathrm{CH} 2, \mathrm{CH} 3$ and CH4. The current will be cut off only when the current on one channel reaches approx. 4A. Max. current available from the CB9 transformer is approx. 6.5 A.
Example of no protection: If you have CH1 = 3A, CH2 = 3A, CH3 $=3 A=>9 A$ in total there is no EOP of the channels and the CB is overloaded!

Px: Means Electronic Overload Protection via a pulse measurement.

## Options (has to be stated separately):

- Can be mounted on the LA31
- Customised software may be ordered. Please see the guidelines for design of special software!

NOTE:
LA34 fast motor is not compatible with any standard versions of CB9, due to high current consumption. For use of LA34 standard motor and small motor always use a CB9 with EAS.

Additionally, actuators with reed switch may not be connected to AC, AD, AE, AF, AG or AH types because of a conflict between the CB-signal wires and the reed wires.

## CARELINE ${ }^{\oplus}$ CB9



LINAKA/S
CBO9COOO18
Note: The tolerance between the mounting holes is $+/-0.5 \mathrm{~mm}$

## CB9 CARELINE ${ }^{\oplus}$

Ordering example:


NOTE:
State separately if CB9 and LA31 are to be mounted together.

## BA1800 - External battery box

Ordering example:


An external charging device is not available as standard article.

When activating several channels and they are at the same time independent of each other, contact technical support (related to simple EAS design).

- It is possible to order blind plugs for CB9 CARELINE IP 66

Order number:

| Grey: | 00931082 |
| :--- | :--- |
| Black: | 00931081 |

O-rings are not needed for these rubber plugs.

- It is also possible to order blind plugs for the external battery box outlet (for BA1800)

Order number:

| Grey: | 00918035 |
| :--- | :--- |
| Black: | 00918034 |
| O-rings: | 0007018 |

The blind plugs are delivered in plastic bags of 100 units in each bag.

- When ordering a CB with mains cable the O-ring and locking ring are automatically included (to maintain the IP degree)

When ordering a mains cable you only need to specify if the O-ring and / or locking ring are required.
Order number:

| O-ring: | 0007029 |
| :--- | :--- |
| Locking ring: | 00912007 | such replacement/repair.

