CARELINE® CONTROL BOX CB9



CB9: Compatible with LA31, LA31R, LA34, LA34R1) and RA40

Features:

- Connection of max. 4 actuators, type LA31/LA31R and LA34/ 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 Hz
- Duty cycle: Max. 10% or 6 min./hour at continuous use
- Output voltage 24V DC
- Ambient temperature: +5° to +40°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 (PM/PN versions), HB7XE/W, DPXE or DP1M
- 3.2 m exchangeable straight mains cable
- EOP = Electronic Overload Protection (only AC, AD, AS and Px types)*
- Medically approved according to EN 60601-1
- Locking mechanism for DIN plugs and mains cable
- Electronic protection of the relays for extended lifetime, EAS (simple EAS); available on AC, AD, AE and Px (not PM and PN) types
- Double power control (FET + relay) monitoring on all AC, AD and AE types.
 - * AD type CH1+2 via common current cut off; CH3+4 have no EOP!
 - AS type via individual current cut off
 - Px type via pulse measurement

The CARELINE® CB9 has been developed for use together with LA31/LA31R, LA34/LA34R¹⁾ and the Rotary actuator, RA40 in the Care & Rehab industry. CB9 and LA31 can be fully integrated which saves mounting and wiring or be installed separately.

Exchangeable mains cables, Electronic Overload Protection (EOP), EAS, earth connection (Class 1) and exchangeable mains fuse makes CB9 a good choice for the simple hospital and care beds.

The CARELINE® CB9 series are available as either analogue (Ax) type or m-processor based (Px) types.

The Ax types are developed especially for the Care & Rehab industry and are medically approved according to EN 60601-1 (IEC 601-1).

1) LA34R only as special-article.



Features:

- 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 AE and AD types; use notation A for ordering)
- External battery backup (no internal charger) (only AE and AD types; use notation B for ordering)
- Mains cut-off
- Compact high power toroidal transformer with low power consumption and low electromagnetic emission

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
- * Electronic Overload Protection (only AD, AS and Px types)
 - AC: Has common measurement on CH1, CH2, CH3 and CH4.
 If the total current exceeds 5A all channels will be cut-off.
 - AD: Means a common current measurement on CH1+2.
 The current will be cut off when the total current on both channels reaches approx. 3.4 A.
 - AS: Means an individual current measurement on CH1, CH2,
 CH3 and CH4. The current will be cut off only when the current on one channel reaches approx. 4 A. Max. current available from the CB9

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!

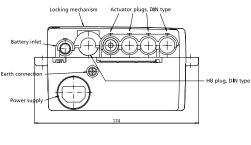


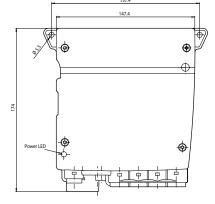
NOTE:

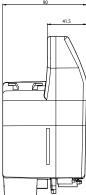
LA34 fast motor is not compatible with any of the CB9 standard versions, due to high current consumption. The combination LA34R/CB9 "Px" is only available as special articles. For use of LA34 standard motor and small motor always use a CB9 with EAS.

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

CARELINE® CB9

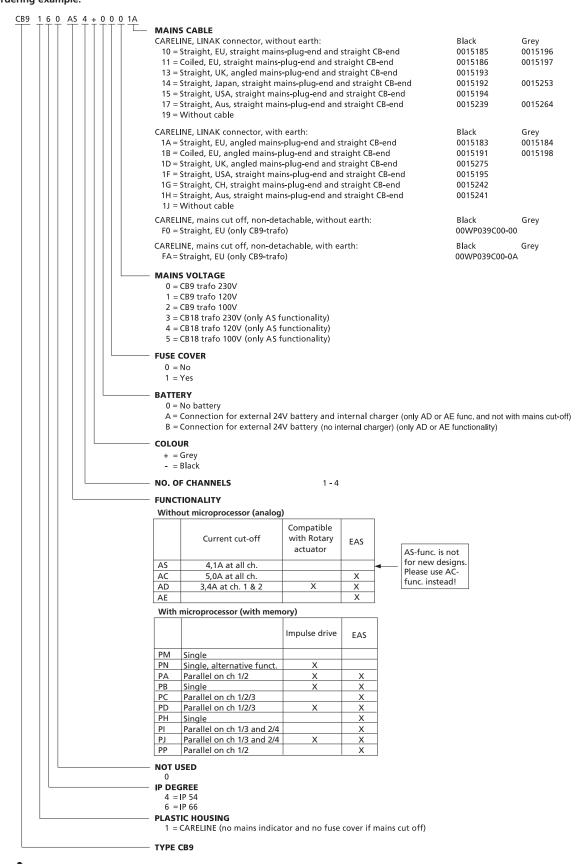






Note: The tolerance between the mounting holes is \pm 0.5 mm.

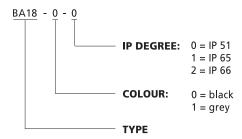
CB9 CARELINE® Ordering example:





State separately if CB9 and LA31 must be mounted together.

BA1800 - External battery box Ordering example:





Note:

An external charging device is not available as a 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 each 100 units.

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