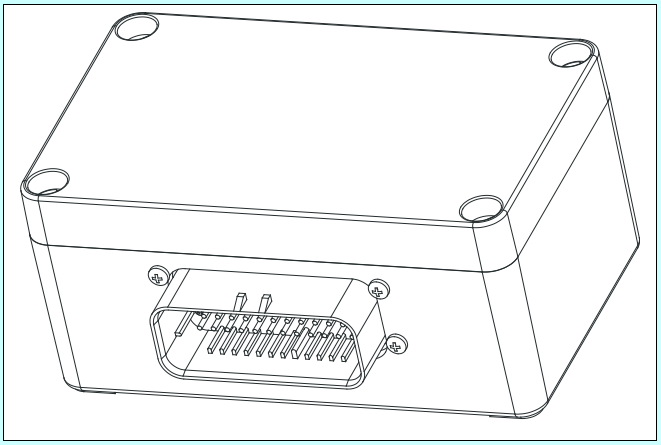
Basket automatic levelling and load control

LAB3 Series



Description

- Integrated system for basket automatic levelling with integrated planarity sensors and basket load control with amplified or differential transducers
- Crossed double channels architecture for signals elaboration
- Calibration via push buttons and LEDs on the board or RS-232 serial port
- Same power supply from 12 to 24 Vdc
- LEDs diagnostic on board or via RS-232 serial port
- It is possible to mount the box in different positions

Available electrical connections:

- AMPSEAL side connector with 35 poles (for levelling and load control) or 23 poles (for levelling only)

Auto diagnostic for:

- Short circuit on power outputs
- Disconnected or short circuited transducers

Automatic levelling

- Not linear system for automatic optimization in every single boom configuration (with supplementary angle transducer)
- System auto calibration (auto tuning)
- Levelling with operative adaptive controller
- No more instable behaviour, in all conditions
- Hydraulic power pre-selection
- Automatic detection of working axis and directions
- One or two programmable safety outputs (max 10 degree)
- Two programmable tilt signalling outputs

Basket load control

- Outputs for alarm and pre-alarm signalling
- Overload safety output
- Digital input for double alarm level selection
- Push button to set the system zero calibration

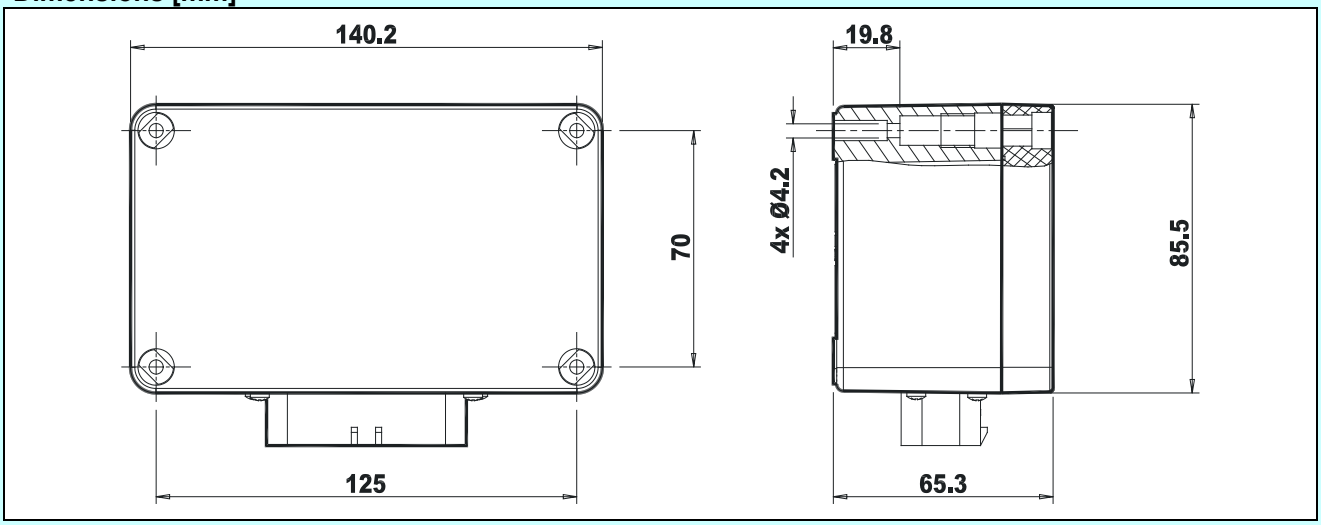
Safety

Levelling: Category 3 (EN 954-1) and PL d (EN 13849-1), *without mercury switch*
Load control: Category 3 (EN 954-1) e PL d (EN 13849-1), with dual transducers only

Technical data

Power supply	9÷33 Vdc	-
Digital inputs	3	-
Analog inputs	1 + 2 differential	Protected against short circuits and operator error
Digital outputs	3 + 2 positives	Imax = 1 A. Imax = 2 A if single activated. Protected against short circuit
Digital safety outputs	2 + 1 with polarized relay	Imax = 2 A. Protected against short circuit
Levelling outputs	2	PWM with current control | ON/OFF max 3 A | analogue for Danfoss™
Connections	RS-232 serial port	CAN bus available on request
Operating temperature	-40 to 70 °C	-
Standard protection grade	IP 66	Inside BPE box

Dimensions [mm]



It is prohibited to use this apparatus/accessory until the machine onto which it is mounted has been declared in conformity with the Machine Directive 98/37/EEC.

BPE Electronics Srl should modify technical datas without advise

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