

DGS-100

Device Auto-Leveling With 4 floor stabilizers

Commands in an automatic way the descent of hydraulic stabilizers of a wagon providing the support and the horizontality of the floor.

SPECIFICATIONS:

POWER:from 8V @ 32V
CONSUMPTION: 18mA@ 12V
CONTROL VALVES 4
CURRENT REGULATION
SOLENOID ON / OFF OR PROPORTIONAL:up to 2.0A
TIME LIMIT DOWN PISTONI.....50cm/20 "
TEMPERATURE RANGE:-15 ° C to 70 ° C
TERMINATION:16-pin connector ILME
DEGREE OF PROTECTION:.....IP65
OUTPUT SHORT CIRCUIT PROTECTED FROM
OPTICAL SIGNALS LED INSIDE
NOT AFRAID OF WATER CONDENSATION INSIDE: electronics
is completely covered with resin.

Item Code: F00186-0000-000

OPERATION

The DGS-100 unit is responsible for the descent of the hydraulic stabilizers of a cart. **The system recognizes the starting angle and starts the stabilization depending on the angle in which is located, always starting from the opposite side.**

Pulling down a piston at a time one has the recognizing for each state of support and adjusting the stroke so as to obtain the horizontality of the floor. The Start for the consent to the transactions is provided by a manual control, therefore a first stage proxy the support of all the four stabilizers, a second phase search the horizontality of the floor panel (compatibly with the maximum possible extension of the stabilizers), then a third phase simultaneously activates all the stabilizers for a predetermined time and adjustable by trimmer, in the same operation controls and possibly corrects the horizontality of the floor. At the end remains in stand-by continuously checking the horizontality and possibly activating an alarm output qual'ora the inclination with respect to the horizontal exceeds an adjustable threshold.

CALIBRATION

Does not require any calibration since this is done at the factory. **For a correct operation it is Recommend calibrating the flow of oil on the pistons for a maximum speed of 50cm/20 ".**

ADJUSTMENTS

Adjust the desired angle.

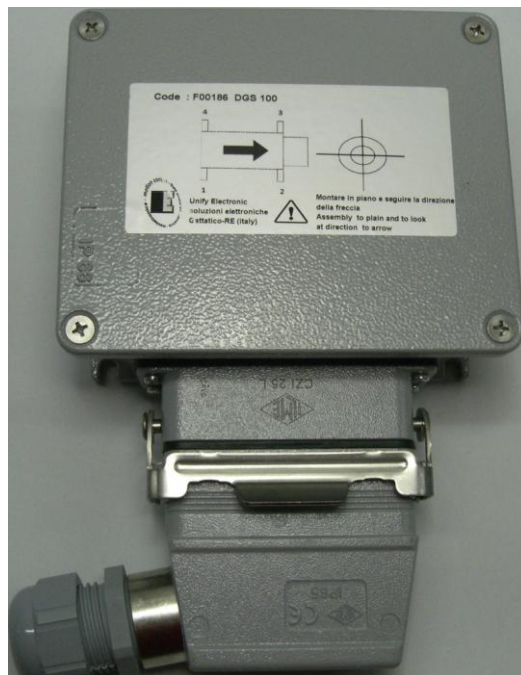
If you wish to print a particular inclination with respect to the horizontal platform, you will have to act on the trimmer P1 with regard to the inclination refers to the long side of the device or P3 as regards the inclination refers to the short side of the device.

To check the adjustment necessary to repeat the cycle of descent of the stabilizers.

Adjusting the 'tilt alarm

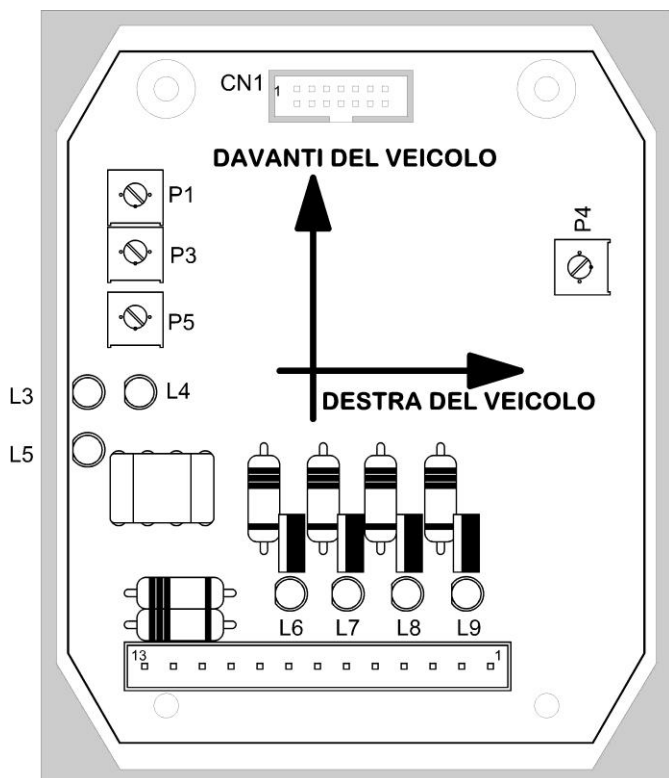
At floor level, the device verifies the maintenance of its horizontality but without intervening.

Qual'ora, for example because of subsidence of the ground, should occur a 'tilt of the platform, the device activates an output alarm. The threshold of inclination which causes the alarm is adjustable via the trimmer P5 from 1 ° ∠ up to a maximum of 5 °.



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- P1 regola l'inclinazione destra-sinistra:
in senso orario alza il lato sinistro del veicolo
- P3 regola l'inclinazione avanti-dietro:
in senso orario alza il retro del veicolo
- P4 regola il tempo di sollevamento contemporaneo
(regolabile da 1.8s a 4.0s), viene comunque interrotto
dal segnale di "balestra scarica"
- P5 regola la soglia di sensibilità del controllo di
orizzontalità a stabilizzazione effettuata:
in senso orario aumenta la banda tollerata.

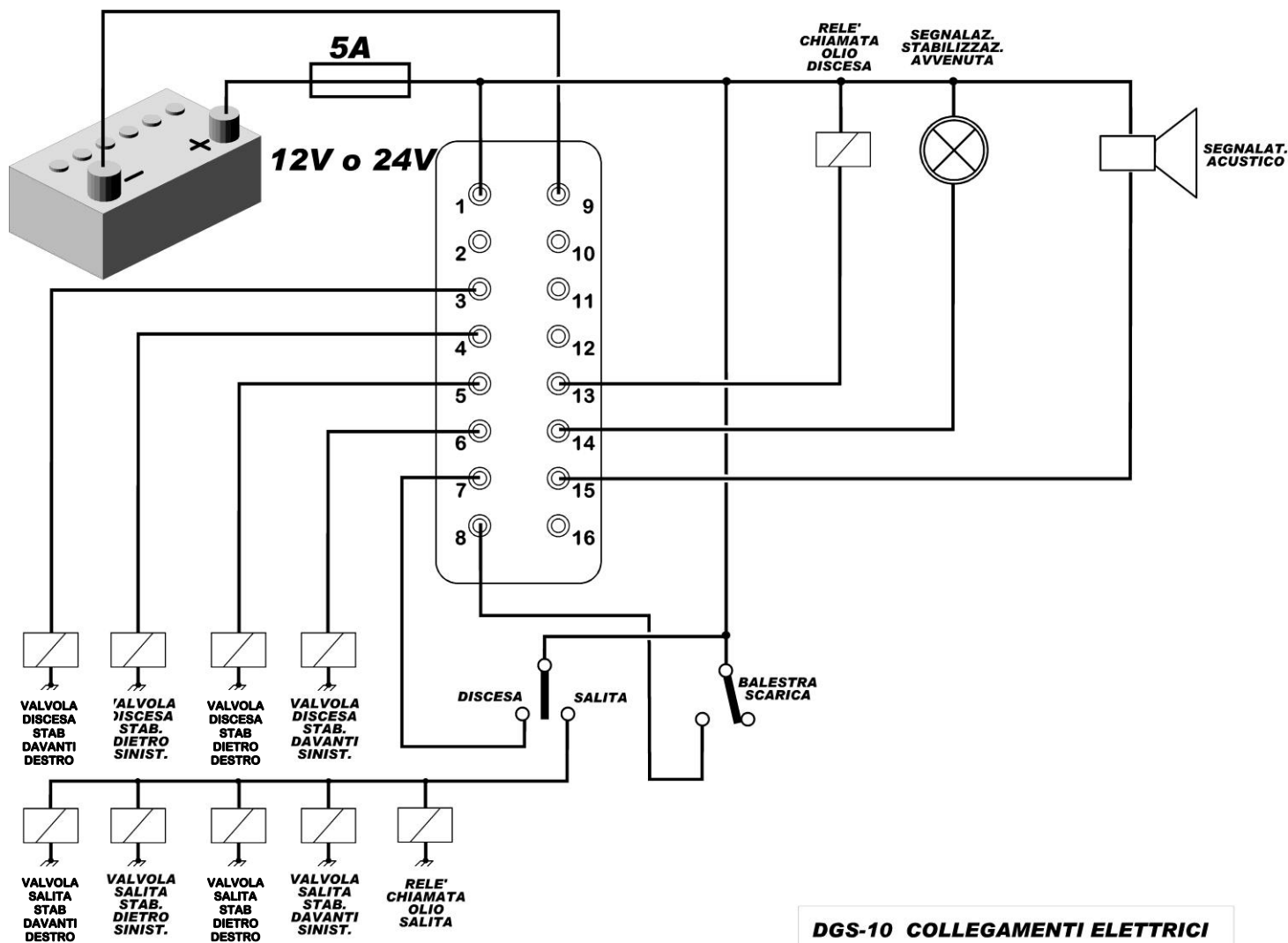
OPTICAL SIGNALS

- L3 = Stabilization occurred
- L4 = Power on
- L5 = Short circuit on the outputs
- L6 = Activation stabilizer LEFT FRONT
- L7 = Activation stabilizers RIGHT FRONT
- L8 = Activation stabilizers POST. SX
- L9 = Activation stabilizers POST. DX

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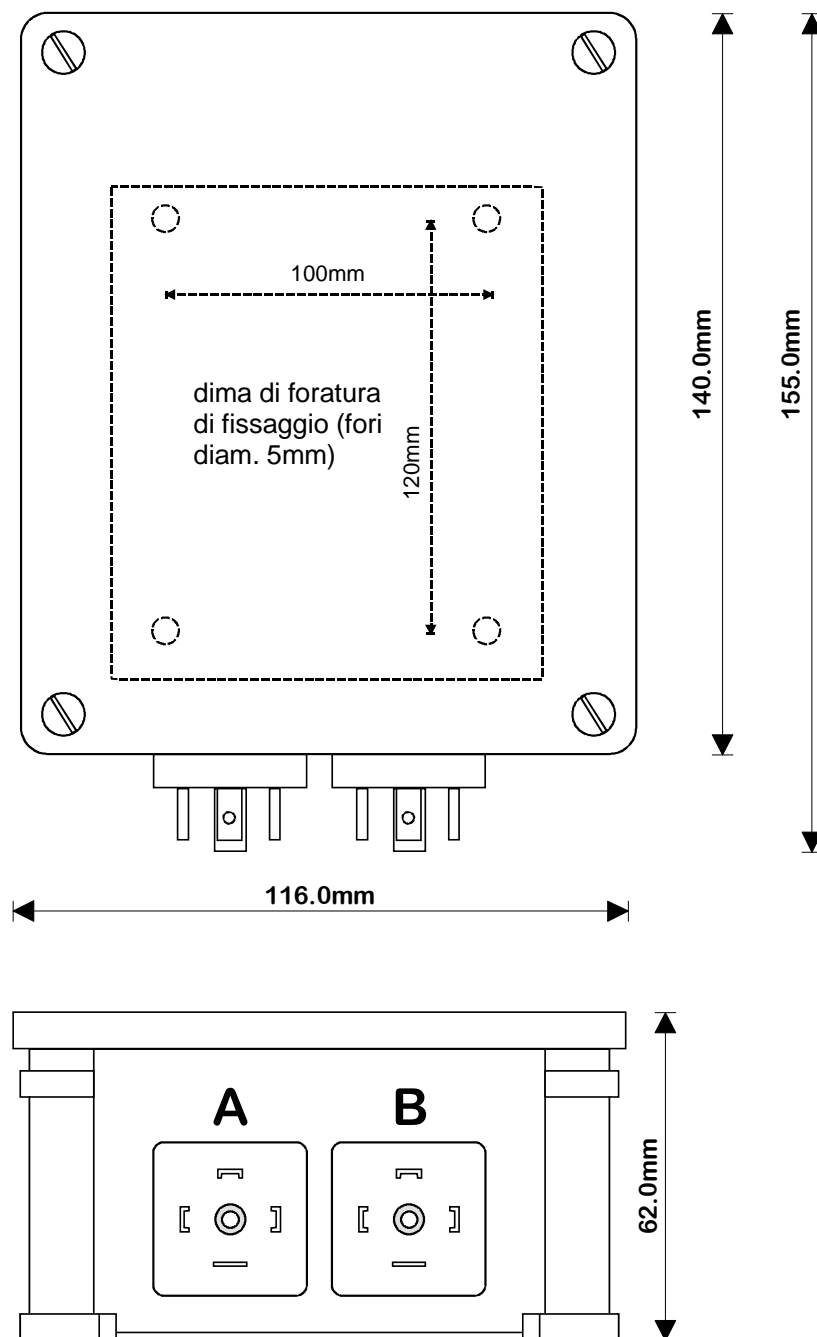
INSTALLAZIONE



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DIMENSIONI



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