

Safety systems Overturning

The device SSR-200 is an instrument for the agricultural and operating machines against the overturning danger as a result of translations on lands excessive tilted. Moreover in case of effective overturning, to extinguishes automatically the functions of the machine limiting the dangers deriving from the state of overturning.

By means of the continuous monitoring of the transverse axis and the longitudinal axis of the machine according to program thresholds, to the attainment overcoming of the established values the device to emit one signal (on-off or proportional with increasing intensity) in order to inform the operator of the danger condition.

If the machine had to overturn (overcoming of the maximum threshold) the device interrupts a second signal them action to feeding general switch of emergency connected for example at a motor endothermic.

The device finds detail application interest on all those blots of it with rotary tools (blades, cutters, etc) where today in overturning case the stop of the commandos tools is entrusted exclusively the operator.

Ulterior possible application is that of control and safeguard of the endothermic motor against the operation beyond the indicated limits of inclination from the constructor.

The system is patented

TECNICAL CHARACTERISTICS:

Supply Voltage:	Modello 12V (7V/15V) Modello 24V (15V/30V)
Supply Current:	200mA 40+85°C 0,1°
Accelerometer 3 Axis X, Y, Z: Output:	
1. N° 2 RELAYS in series Alarm Over current maximum :	16A
2. First alarm overtutning Contactsi3. Output CANBUS	
4. Signal Analogic inclination axis X:	0 - 10V 0 - 5V
5. Signal Analogic inclination axis Y:	0 - 10V 0 - 5V
6. Signal Digital:	open Collector



Programming

by software Gamma Suite and with interface USB –SPI: Learning automatic of the zero level Selectable Output signal analogic (5V o 10V) Gaing of signal analogic Angle of open relays ALARM Angle of open relays FIRST ALARM Reading of the number of operations FIRST-ALARM and ALARM

Measure of angle in Real Time

When the machine is in safety the contacts of the relays is closed, when the is danger situation the relays they are opened .







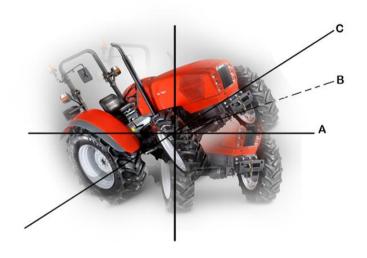


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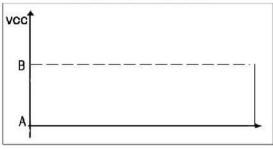
Certification CE

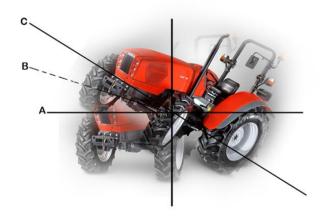
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EXAMPLES OF APPLICATIONS

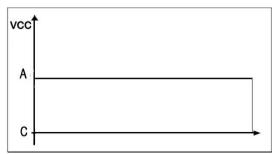








SIGNAL OUT ALARM SAFETY







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Like in the example brought back in the tractor up, the same technology can be applied on varied blots some, like Undercarriages Telescopic Elevators, Tractors and Scissors Platforms.



The Safety Systems of overturning applied on the Undercarriage Elevator gives the possibility of being able to control the cargo in elevation on slanted plans. Thanks to the continuous control of aces x and y of the machine in the event of overcoming of the prefixed angles of emergency, take part bringing back the cargo in an emergency position or stopping the operation.



In the Telescopic Tractors the Safety Systems of overturning monitors during the operativity of the machine the job angles. In the event of approach to the emergency angle the operator comes perceived with marks them acoustic visual. All overcoming of the emergency angles the vehicle comes stopped or brought back within the limits of the set up parameters of emergency.

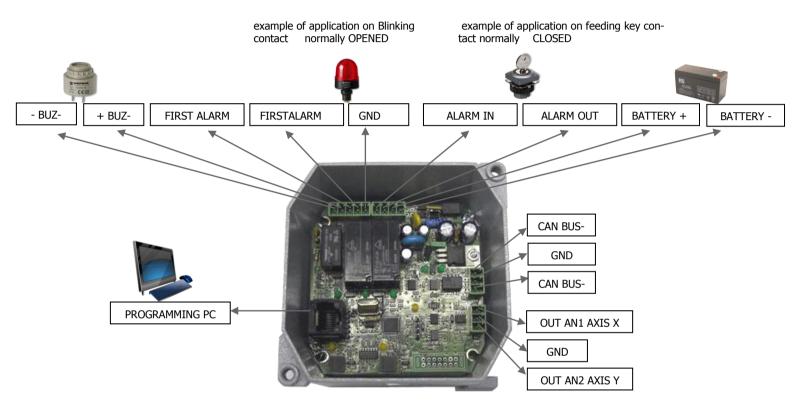


In the Scissors Platforms the Safety Systems of overturning controls the efficiency of the machine through the job angles. In the event of approach to the emergency angle the operator comes perceived with marks them acoustic visual. All overcoming of the emergency angles comes limited the heights of job of the Platform.



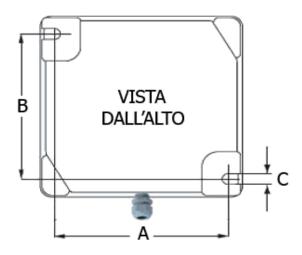
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WIRING SYSTEMS:



MECHANICAL CHARACTERISTICS at mm:

A = 86mm B = 80mm C = 06mm





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