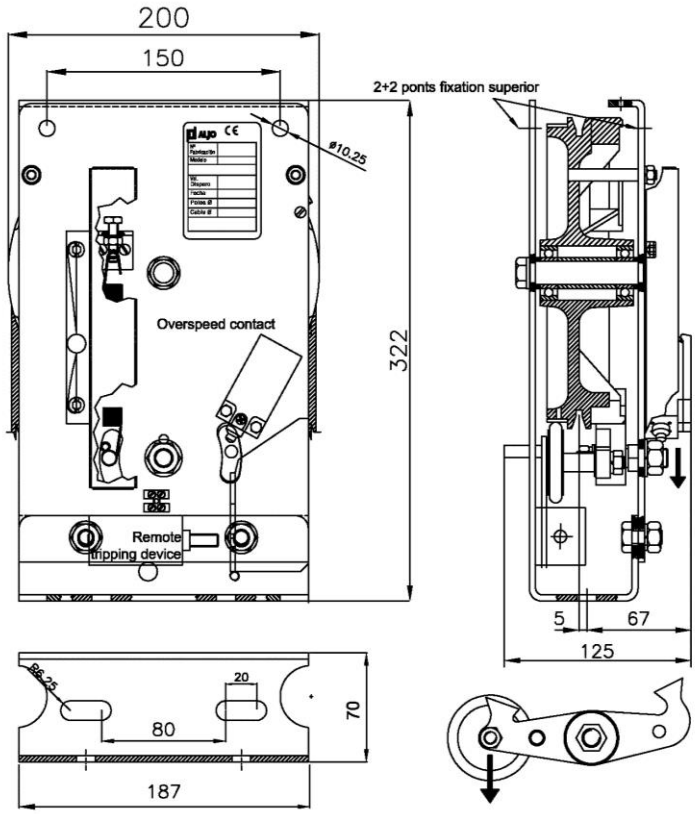
CE 1027

2014/33/EU ATI/LV/001



1.- Seal.

The adjusted sealed points of the overspeed governor should not be manipulated*. The adjustments are produced in the workshop and cannot be varied.*

2.-Cables.

The ropes to be used are Ø 6 mm - 6.5 mm (6x19+1) (8x19+1).

Avoid getting the rope greasy when lubrication procedures are carried out in the lift.

3.- Fixture and Assembly.

To assemble the overspeed governor it will be necessary to apply Hilti type wads or similar of M12x100E. The overspeed governor will be fixed on these wads in the middle of two drills situated in the base, or better still, by means of screws if pre-drilled guides have been installed in the floor.

Rated speed	Tripping speed
< =1,60 m/s	0,30 - 2,20 m/s

Ref.	ϕ (mm)	Overspeed contact	Remote tripping	Remote reset contact	Tensora / Tension Pulley
2129.PSA2	200	(1 NC) Manual	---	---	12.064.0A / 12.064.0M
2129.DSA2	200	(2 NC+1NO) Auto	---	---	12.064.0A / 12.064.0M
2129.TSA2	200	(1NC+1NO) Auto	---	---	12.064.0A / 12.064.0M
2129.TK24	200	(1NC+1NO) Auto	ED / 24 VDC (1,9 A)	---	12.064.0A / 12.064.0M
2129.TK48	200	(1NC+1NO) Auto	ED / 48 VDC (1 A)	---	12.064.0A / 12.064.0M
2129.TK190	200	(1NC+1NO) Auto	ED / 190 VDC (0,3 A)	---	12.064.0A / 12.064.0M
2129.TK230	200	(1NC+1NO) Auto	ED / 230 VAC (0,25 A)	---	12.064.0A / 12.064.0M
2129.ZSA24	200	2NC (Remote reset)	---	24 VDC (4,2 A)	12.064.0A / 12.064.0M
2129.ZSA230	200	2NC (Remote reset)	---	230 VAC (0,5 A)	12.064.0A / 12.064.0M
2129.ZK24	200	2NC (Remote reset)	ED / 24 VDC (1,9 A)	24 VDC (4,2 A)	12.064.0A / 12.064.0M
2129.ZK190	200	2NC (Remote reset)	ED / 190 VDC (0,3 A)	190 VDC (0,5 A)	12.064.0A / 12.064.0M
2129.ZK230	200	2NC (Remote reset)	ED / 230 VAC (0,25 A)	230 VAC (0,5 A)	12.064.0A / 12.064.0M

4.- Blocking-Unblocking of the Overspeed Governor.

The overspeed governor has upward and downward blocking. Can be used indiscriminately mounted right or left (both directions of rotation). The bloking speed may range from one direction to another of 4% and 8%. **The overspeed governor can be mounted ONLY in downwards, too (in these cases the reference will be 2129.B-----).**

4.1.- Manual blocking.

It is possible to carry out the manual tripping of overspeed governor, to activate the safety gear, pushing downwards the tripping device of overspeed governor, indicated in the arrow in the diagram.

4.2.- Remote blocking.

There is a solenoid to produce the tripping of the overspeed governor. There are different tension supplies of the solenoid.

4.3.- Mechanical and electrical blocking.

When the rotation speed of the overspeed governor reaches the speed at which it has been calibrated and sealed, the electrical contact is activated, which indicates the control panel to brake the machine and decelerrate the car. If this is not enough, the overspeed governor will block mechanically and as a result activate the safety gears and the stoppage of the car on the guide rails.

4.4.- Electrical contact reset.

The over speed switch has to be reset when it has been opened. This will be reset manually (machine room), automatically or remote reset to 24 VDC (4,2 A) o 230 VAC (0,5 A) and will be after the mechanical reset of the overspeed governor.

4.5.- Mechanical reset.

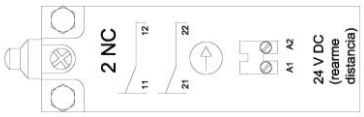
When the overspeed governor is triggered, its rope is maintained in a locking position being required the displacement of the car in the opposite direction of *which the blocking was produced for the mechanical resetting.*

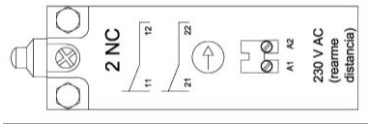
5.- Tension Pulley.

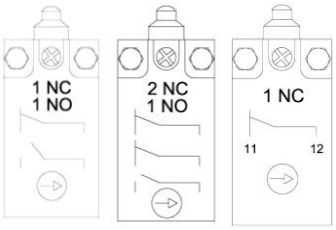
The tension pulley in drawing 12.064.0A / 12.064.0M have been estimated to produce a tension on the safety gear in the ascent direction of at least 300 N. In descent the tension is over 600N. Other tension pulleys can be used, always when the minimum tension is guaranteed on the axle of the tension pulley. The tension pulley has a contact to detect the loosening of cables, which is activated when the pulley turns on lengthening the rope.

6.- Electrical assembly.

The current of the remote tripping device could be 24 VDC, 48 VDC o 230 VAC. Maximum consumption of 1,9 A, 1 A o 0,25 A. Maximum time of activated coil of 10 seconds waiting time for next activation of 30 seconds.
The electrical tripping device (overspeed), safety contact, is composed of 1 contact 1NC (manual reset) and 1NC+1NO (automatic reset).
It is possible to mount an overspeed contact 2NC+1NO (automatic reset or manual). In this case the reference is as the table where the first letter will be D (2129.D----, upwards and downwards or 2129.BD----, only downwards).
It is possible to mount an overspeed contact 2NC (remote reset) to 24 VAC (4,2 A) or 230 VAC (0,5 A). In this case the reference is as the table where the first letter will be Z (2129.Z----, upwards and downwards or 2129.BZ----, only downwards).







7.- Maintenance.

All the rotation axes of the overspeed governor and of the return pulley *have bearing*, which means that they do not require any subsequent greasing or maintenance. At the same time, greasing of the cable can reduce the adherence of the cable and the channel of the overspeed governor. This could reduce the strength on the safety gear.
Two things should be kept in mind to avoid incorrect operation of the overspeed governor. First, mobile elements should be kept clean to avoid possible mixfunction. The installer should ensure of the perfect condition. Second, although the equipment leaves the factory finished to avoid corrosion, the installer should check the parts, and act where appropriate. The maintenance company will determine the frequency of inspections, but they should take into account the atmosphere where the equipment is installed.

8.- Evaluation of risks and security.

In the installation of the rope on the pulley groove entrapment may be produced between the rope and the pulley, avoid rotation of the pulley of the overspeed governor. In normal running of the installation, at the point of entry and exit of the cable in the groove of the pulley there may be a point of risk and to this aim the overspeed governor has a protection cover available to avoid such an incident.
To avoid electric shocks on connecting the overspeed contact and/or remote tripping coil (for the test of the blocking of the safety gears) remove the power supply

9.- Responsibilities.

Gervall no se responsabiliza de los problemas derivados del no cumplimiento de los consejos y prescripciones descriptos. Así mismo, no se hace responsable de la manipulación de los precintos.

Gervall will not be held responsible for any problems caused by the non-compliance of advice and guidelines. At the same time, Gervall will not be responsible for any manipulation of seals.