

Module of security UCM100

■ Description:

Module of security UCM for the control of the activation of the overspeed governor for systems of protection against Unintended Car Movement (UCM, Unintended Car Movement) according to Adenda 3 of regulation EN 81-1:1998+A3:2009 (point 9.11).

Functional Description.

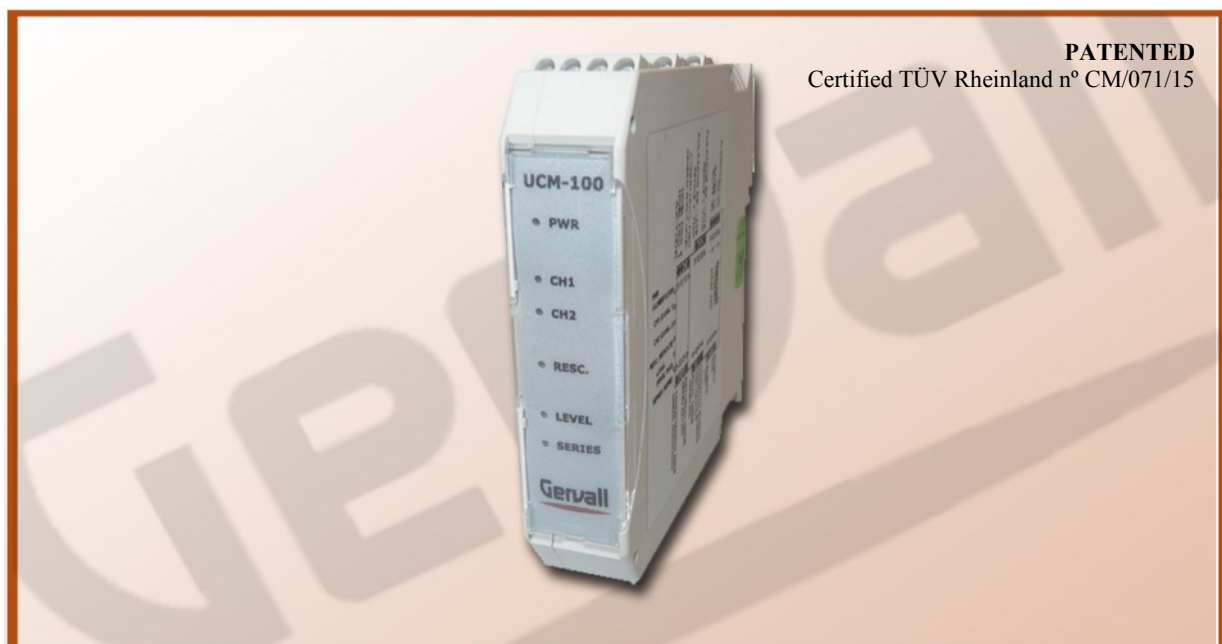
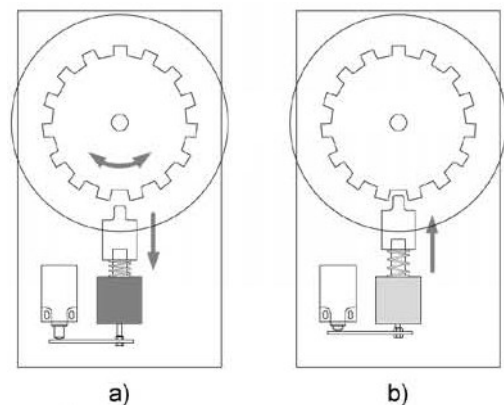
The UCM100 module is designed for the control of the electrical supply of the electromagnet's coil installed in the overspeed governor:

- A) When the coil receives current, the overspeed governor can rotate freely.
- B) When the coil does not receive current, it contacts with a cog Wheel, attached to the pulley of the overspeed governor, permitting UCM detection.

By means of the series input and the floor level, the module Detects when the car is stationary on the floor level and with the doors open, in which case the coil stops receiving current to activate the protection, and consequently, the installation is protected against unintended car movement. When the doors are closed the system does not trip the overspeed governor, thus allowing normal functioning of the lift.

The module can avoid the activation of the overspeed governor in undesired situations:

- 1) In the situation of series opening with car moving, there will be a delay in the fall of the coil of the overspeed governor to permit the movement of the car until its detection, before the activation of the UCM system.
- 2) In the case of a fall of current with the car in movement, the system of batteries will permit a delay in the fall of the coil preventing the activation of the overspeed governor during the possible movement of the car until its detection, avoiding the activation of the UCM system.



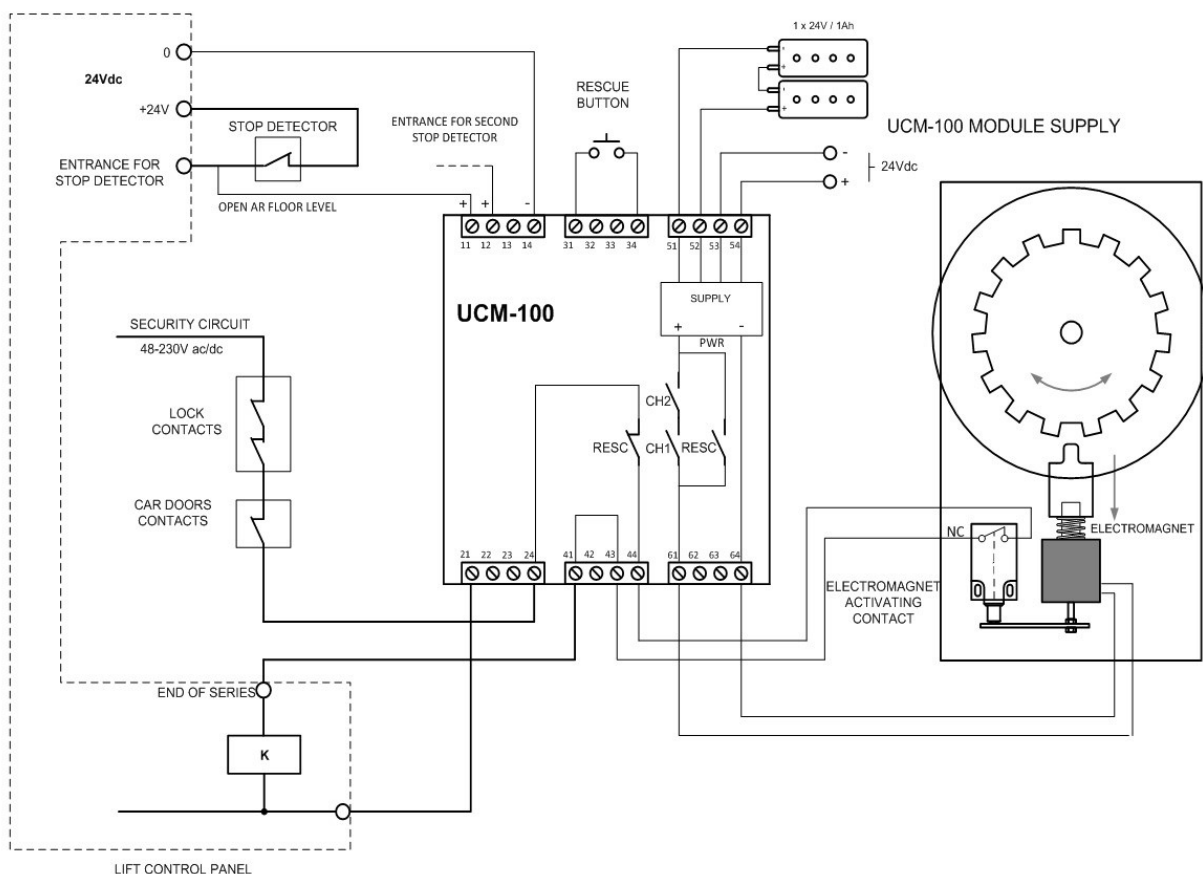
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■ Electrical features

- Tension supply: de 20 a 30 Vdc.
- Tension of signal of floor level: from 20 to 30 Vdc.
- Tension of series input: from 48 to 230Vac/dc.
- Tension of control exit of coil: 24 Vdc.
- Exit current:2A.
- Auxiliary supply by batteries: 24 Vdc, (1Ah).
- Power supply 2,2A minimum. (1,9 A of UCM coil + 0,1A module).

Drawing of connection:

Always connect the UCM100 module to the control panel and the overspeed governor as shown in the diagram:



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Note: The company reserves the right to supply materials that may differ slightly from those described in this catalogue.