

SAFETY SYSTEM FOR A LIFT INSTALLATION AND METHOD OF OPERATING A LIFT INSTALLATION WITH A SAFETY SYSTEM

Abstract

The invention relates to a safety system for a lift installation (10) for the transport of persons/goods in a building (30) and to a method for operating a lift installation (10) with a safety system. Several cages (2, 2') are moved one above the other in a shaft (31). Each cage (2, 2') is moved by a drive (6, 6'). At least one drive control (16, 16') controls the drives (6, 6') by way of drive control signals. Cage position detecting sensors (21, 21') detect positions of each cage (2, 2') and transmit cage position data to at least one safety control (26, 26'). Access to the shaft (31) takes place by way of opened shaft doors (11.0 to 11.8). A lock (18.0 to 18.8) locks shaft doors (11.0 to 11.8). Lock setting detecting sensors (20.0 to 20.8) detect settings of the locks (18.0 to 18.8) of the shaft doors (11.0 to 11.8) and transmit lock setting data by way of the data bus (22) to the safety control (26, 26'). The safety control (26, 26') ascertains, from the cage position data and the lock setting data, shaft region data with details with respect to shaft regions in which each cage (2, 2') is safely movable. The safety control (26, 26') transmits the shaft region data to the drive control (16, 16'), which converts the shaft region data into drive control signals in order to move the cages (2, 2') in separate shaft regions and in order to move the cages (2, 2') in shaft regions with locked shaft doors (20.0 to 20.8).

(Fig. 1)