Abstract

Method and system for avoiding collisions in cranes

The invention relates to a method and a system for avoiding a collision of a load of a crane with an obstacle and also to a crane with a system of this kind, to a program for carrying out a method of this kind and to a computer-readable medium with a program of this kind. In order to specify a solution for collision avoidance which fulfills a level of safety, a solution is proposed in which the load is moved along a trajectory, wherein a height profile is acquired at least along the trajectory by means of at least two sensors for distance measurement, wherein signals of the sensors are sent via at least two communication channels to a controller with at least two operating systems, of which at least one has a safety program in a secure region, wherein an obstacle along the trajectory is identified on the basis of the height profile. The controller furthermore has a secure communication interface for transmitting signals from the controller to the crane control.

FIG 1