Sicherheitstechnik

SAFEMASTER W
Wireless Safety System, Enabling Switch
System Overview

SAFEMASTER W ireless safety
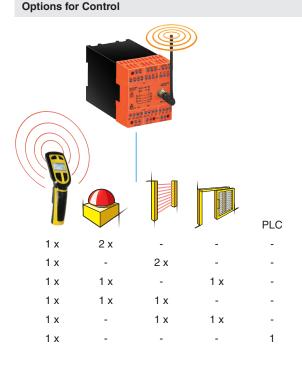
DOLD

BI 6910

RE 6910

... Wireless escort for your safety
- For access in hazardous areas with enabling switch
- **According to**
  - **Performance Level (PL) e and category 4 to EN ISO 13849-1: 2008**
  - **Safety Integrity Level (SIL 3) to IEC/EN 61508**
  - **Cat. 4 acc. to EN 954-1**
  - Acc. to DIN EN ISO 13850
- Safety radio transmission

Your Advantages

- Maximum mobility and flexibility with maximum safety
- For higher availybility of your machines and plants
- Ideal solutions for mobile and stationary machines and plants with dangerous areas
  - During automatic operation e. g. to clear failures
  - During set up e. g. to adjust machine parameters, maintenance, set up
- Optimised sight on operating area during set up
- Individually configurable control buttons for up to 20 control functions
- Comfortable one-hand operation
- Clearly arranged control panel with clearly legible display
- Fast frequency adjustment directly on the enabling switch
- High operational reliability due to dynamic and redundant data transmission protocol

Approvals and Markings

Options for Control

				PLC
1 x	2 x	-	-	-
1 x	-	2 x	-	-
1 x	1 x	-	1 x	-
1 x	1 x	1 x	-	-
1 x	-	1 x	1 x	-
1 x	-	-	-	1

Additional Information About This Topic

- You will find information about the radio controlled safety modul in the datasheet BI 6910
- You will find information about the remote control in the datasheet RE 6910

Applications

- Setup and maintenance of robot cells
- Interventions in machine areas during setup operation
- Maintenance of dangerous machines
- Manual intervention in automated production processes
- Maintenance of automatic warehouses
- For all applications with access options in hazardous areas

Also for control tasks, e. g. for:
- Gradual regulation
- Start and stop functions
- Speed adjustments
- Positioning and selection of actuators

Description

SAFEMASTER W includes a very compact and ergonomic enabling switch RE 6910 and a safety module with radio control BI 6910. The enabling switch provides personal protection when entering dangerous areas and allows besides the emergency stop function also control functions with the integrated push buttons and switches. The safety outputs of the BI 6910 guarantee safe disconnection. For control functions it includes 7 semiconductor outputs.

All technical data in this list relate to the state at the moment of edition. We reserve the right for technical improvements and changes at any time.

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Enabling switch RE 6910

Radio Controlled Safety Module
BI 6910

Infrared
sensor
(as option)

Charger Station

Aerial
(as option)

Extension for
Aerial
(as option)

Radio controlled enabling switch RE 6910

The radio controlled eanbling switch RE 6910 includes a LCD displayto indicate the function settings as well as über 4 function buttons for radio remote control. It does not replace conventional safety circuits, but offers additional features. I.e. wired safety circuits remain active, although a remote control is used.

Radio Controlled Safety Module BI 6910

The radio safety module BI 6910 reacts on the signals of the corresponding enabling switch and the wired safety components. To detect the corresponding enabling switch frequency and identity code must be identical.

Infrared Module RE 5910/060

If the start of a plant must only be possible from a certain area, e.g. to have a view on the dangerous zone, the option with infrared start is the ideal solution. Accidents can be avoided by starting from defined zones.

Charger Station RE 6910/010

If the enabling switch is not used it has to be placed in the charger and switched off. This starts the charging process for the battery. The charger has 2 monitoring contacts. These are used to detect the removal of the enabling switch.

Aerials

The receiver unit requires an aerial that can be mounted directly on the front of BI 6910. If the receiver is mounted in a metal enclosure the aerial has to be placed outside. For the outside mounting a special coaxial cable is available.

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