



SAFEMASTER W

Radio controlled safety system UH 6900 - In group mode

The **radio controlled safety system UH 6900** of the **SAFEMASTER W** series, consisting of one group controller and up to 255 group receivers for the safety-related, wireless transmission of emergency stop and control functions, offers more flexibility in safeguarding hazardous areas. By implementing the latest radio controlled technologies, a high level of safety and a long transmission range is achieved. With the group controller, several receivers can be safely switched off via a unidirectional, safety-related radio link. Furthermore, the controller can exchange message, control and status information with a receiving device.

The devices enable the connection of up to 3 two-channel safety sensors (emergency stop, LC, safety door, two-hand etc.) and offer simple configuration as well as extensive evaluation and diagnostic options.

The main areas of application include mobile applications such as fully automated floor conveyors and driverless transport systems. A simple and cost-effective retrofitting of existing safety systems can also be realized without wiring.

Advantages and customer benefits

- ▶ For safety applications up to Cat. 4 / PL e or SIL 3, TÜV certified
- ▶ Safety-related, unidirectional emergency-stop transmission in group mode
- ▶ Long transmission range up to 800 m
- ▶ Quick start, fast set-up procedure
- ▶ Reliable data transmission and low susceptibility to interference
- ▶ Comprehensive fault localization and diagnosis
- ▶ Two-channel safety inputs / outputs
- ▶ Control inputs / outputs
- ▶ Integrated analysis of the existing radio network

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Technical features

- ▶ According to
 - Performance Level (PL) e and Category 4 acc. to EN ISO 13849-1
 - SIL Limit (SIL CL) 3 acc. to IEC/EN 62061
 - Safety Integrity Level (SIL) 3 acc. to IEC/EN 61508 and IEC/EN 61511
- ▶ Machinery Directive 2006/42/EC
- ▶ Connection of 3 two-channel safety functions: Emergency stop, safety door, LC, two-hand, 1 start button
- ▶ 1 signal output with 3 contact paths (group controller)
- ▶ 1 safety output with 3 contact paths (receiver)
- ▶ 8 semiconductor inputs and outputs for control functions
- ▶ Semiconductor outputs for signalling radio reception, status display
- ▶ Different frequency ranges possible:
 - 433 / 869 MHz (EU version), 915 MHz (US version)
- ▶ 45 mm width



Radio controlled safety module UH 6900
Group controller



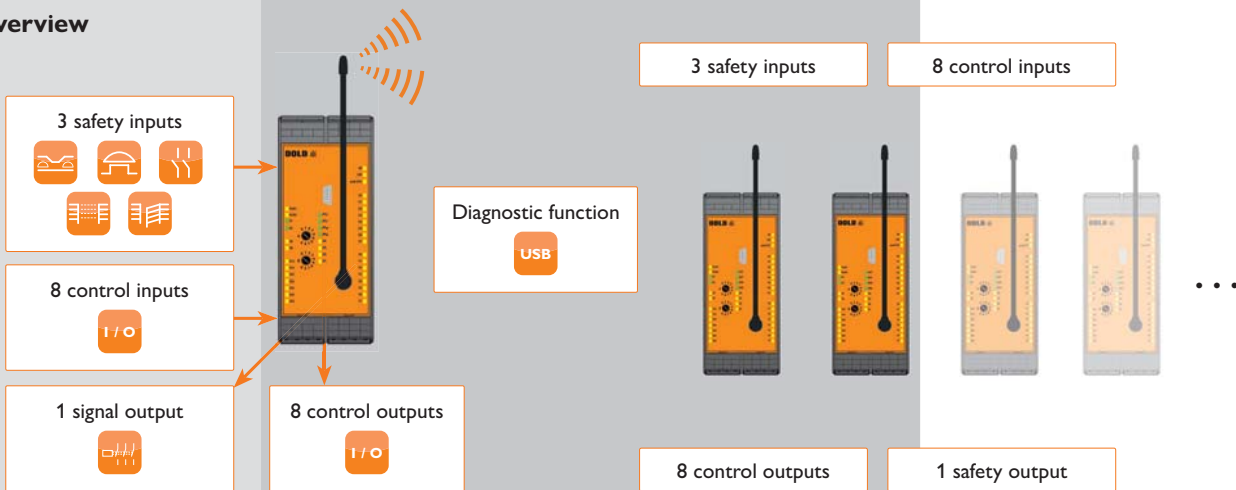
Radio controlled safety module UH 6900
Group receiver

Order information

Standard type: UH 6900.03PS / 00GC0 DC 24 V / 433 MHz
Item number: 0067955 (Group controller)

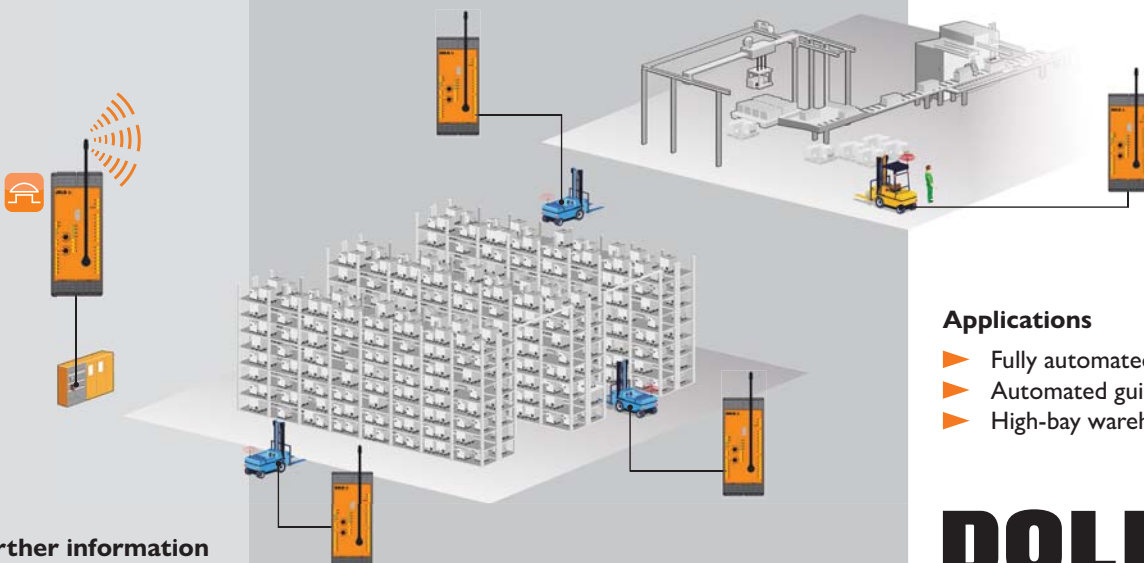
Standard type: UH 6900.03PS / 00GR0 DC 24 V / 433 MHz
Item number: 0067957 (Group receiver)

Overview



Application example

If a safety function (e.g. emergency stop, etc.) is triggered on the group controller, all group receivers are switched off in a safety-related manner.



Further information

UH 6900

Start

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Applications

- ▶ Fully automated floor conveyors
- ▶ Automated guided vehicle systems
- ▶ High-bay warehouses

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