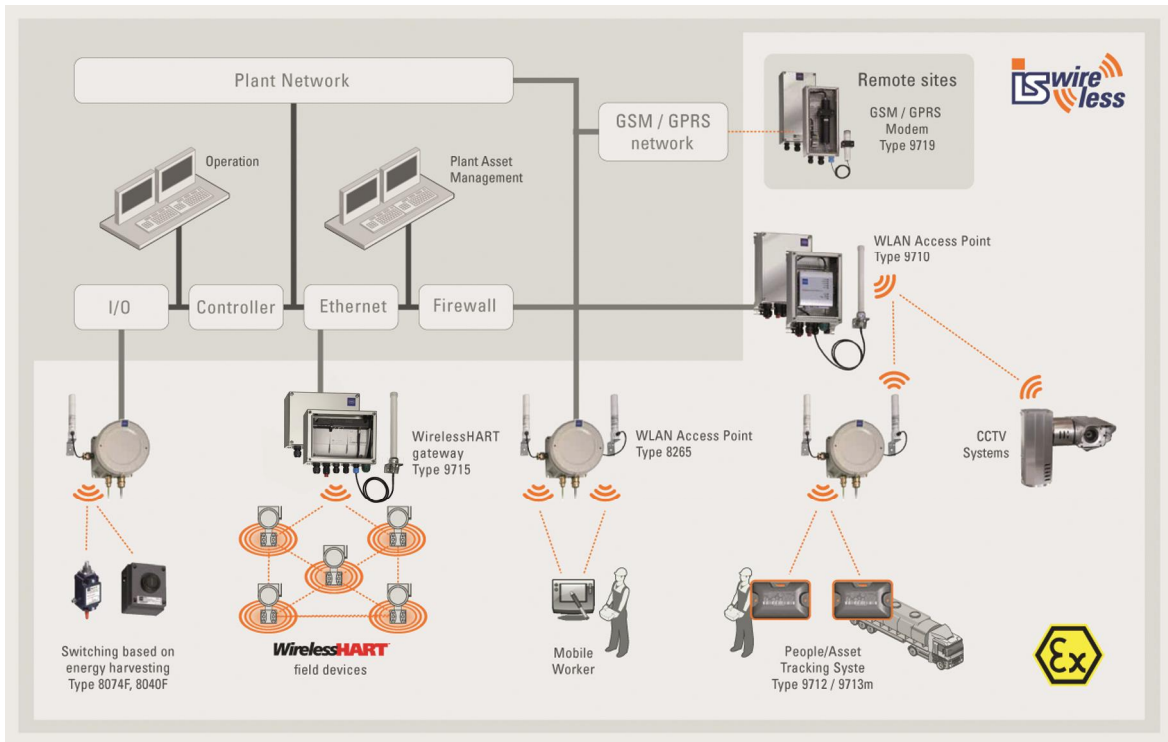
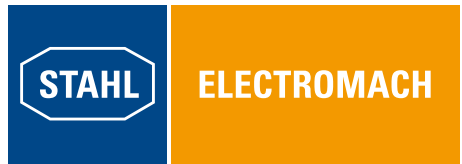


# WIRELESS TECHNOLOGY

## For Process Automation



## Latest Wireless Technology in the Process Automation

The use of wireless technology in process industry offers entirely new possibilities for the system operators to optimise existing production processes and adopt entirely new paths.

A wide field of applications with various solutions becomes available to the user: R. STAHL considers this trend in many different ways.

Besides WLAN, GSM and WirelessHART, R. STAHL also offers switches working without battery or power supply. Recently, the offer has been completed by a localisation system offering new solutions for more efficient production processes and increased safety.

**WebCode 8265D**

## Completely Wireless And Battery-Free Radio Switching Technology

The position switches of type 8074 and control devices of type 8040 are solutions provided by R. STAHL for signal transmission via radio without any wires. Neither an external power supply nor a battery is required to transmit a switching signal. The energy is generated simply by actuation.

The retrofitting and installation at exposed locations become absolutely easy and lead to significantly reduced installation costs.

Since the batteries can be left out, the maintenance costs are significantly lower as well. Both switching and energy generation are adapted to the extreme requirements of the process industry. The enclosures of the position switches withstand even the toughest requirements and provide protection according to IP 67.

**WebCode G053B**

**WebCode G053C**

**WebCode G053D**

**WebCode 8040D**

**WebCode 8074B**



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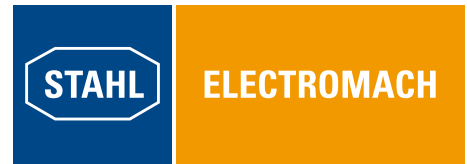
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# ASSET TRACKING SYSTEM



## Real Time Asset Tracking in hazardous locations

Real time asset tracking systems are used to track and identify assets as well as individuals within a production area – no matter if chemical plant, offshore drilling rig, refinery or tank farm.

These systems help the operator of these manufacturing premises to improve both efficiency and safety.

## Applications

Efficient production

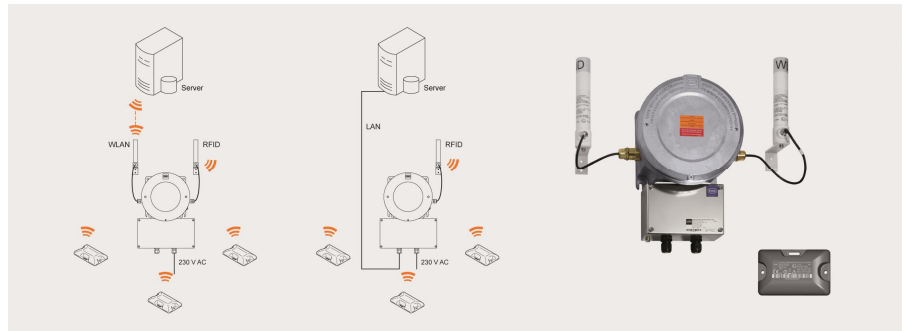
- Container management

Safety-at-work

- Orderly and safe emergency evacuation

Mobile equipment

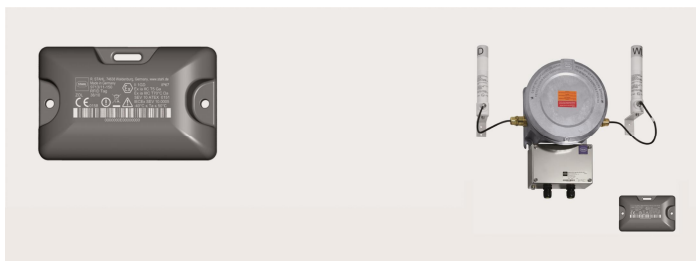
- Localisation of tools and portable machines



WebCode 8265D

## How does the asset tracking system looks like?

The asset tracking system of R. STAHL is based of portable active RFID tags and installed receiver (so-called controller). The RFID Tag is enabled for the use in hazardous locations of Zone 0 and 20. The receiver can be installed in Zone 1 and 21. In order to integrate



## Active RFID Tag Type 9713

The RFID tag is used to identify and/or locate assets, containers, road tanker and individuals within industrial areas. Due to the robust design the tag is well suited for the rough environment conditions of process industry.

It is certified for the use in hazardous locations. The combination of energy efficient electronics and a powerful battery allows for a life time of up to 10 years. In addition to the asset tracking function the tag has multifunction features which allow for read & write operations to the user data memory of 112 bytes, to mute and wake-up of the Tags, and to modify the signalization rate.

## Controller - RFID Receiver Type 8265

In its basic configuration the anti-collision rate is in the range of 80 to 100 Tags per second – patent pending. One single Controller can operate at least one thousand Tags. Several topologies are available – from simple star networks to complex clusters – for operation in all IT environments, up to 1000 Controllers per system.

WebCode 8265D

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