

ZFA / ZFM

ZFA ZÖLLNER Radio Substitution of Cables within the Sighting Distance / ZFM ZÖLLNER Machinery Warning Edition 2S

Definition

The Lookout operated ZFH handheld radio transmitter, ZFE radio receiver and ZFS stationary radio transmitter guarantee a safe transmission of train detection. The edition 2S allows one matched receiver to be used with two transmitters.

Operating Mode

- The ZFA radio transmission system is used in conjunction with the Autoprowa® ATWS. Thus the ZFA allows the cables from the train detection treadles to be replaced by a failsafe radio mode of warning transmission
- The ZFM machinery warning allows an ATWS on an On Track machine to be automatically activated via a lineside Autoprowa® ATWS. Thus warning of a train on the open and adjacent line*



Key Benefits

ZFA / ZFM modules have the following characteristics:

Rapid installation and dismantling times

Easy by-passing of cabling obstacles

ZFM supports single line working / green zone working when adjacent line is open to traffic

ZFA modules can be used in a multipurpose way

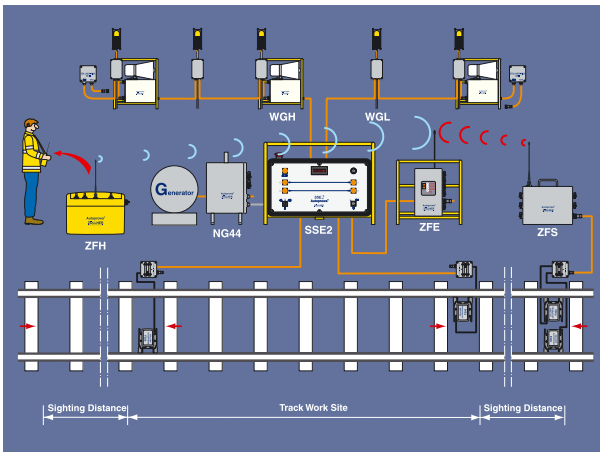
Combined use of ZFA radio and cable results in a most effective protection

2 transmitters to be used with 1 receiver

Functionality

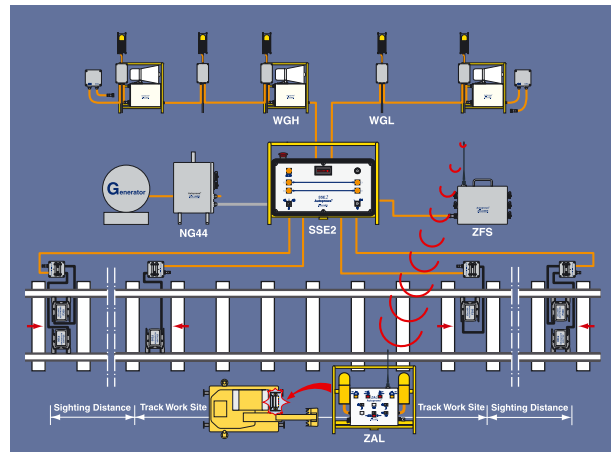
ZFA Radio Substitution of Cables within the Sighting Distance:

- Automatic train detection via treadles, connected to a ZFS stationary radio transmitter or manually via a Lookout operated ZFH handheld radio transmitter
- Transmission of the train detection from the ZFE radio receiver to the SSE central unit
- Radio transmission of switch-in and switch-off signals for a lineside ATWS



ZFM Machinery Warning:*

- Installation of the Autoprowa® ATWS system alongside the open adjacent line
- Transmission of train detection from the SSE central unit via a ZFS stationary radio transmitter to the ZAL mounted on the vehicle
- The ZFE radio receiver allows a ZAL on an OTM to be automatically activated via the lineside Autoprowa® ATWS, thus integrating the OTM into the overall warning system



Technical Data

- IP Protection Class: IP65
- Voltage: DC 24 V
- Weight: ZFH: 2 kg
ZFE: 11 kg
ZFS: 6 kg
- Frequency: 448,15 MHz (further frequencies available upon request)

Components

- ZFH handheld radio transmitter
- ZFS stationary radio transmitter
- ZFE radio receiver
- Additional AF7 battery power supply

*Machinery warning not yet approved for use in the United Kingdom.