RAILALERT

Verkehrstechnik Technique du trafic Traffic Control Engineering



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Creating safety together!

The new ATWS - Train Warning System

for your temporary and mobile track construction site

Swiss Quality - Low Cost

reliable - simple - effective

RAILALERT-Set

Article no.: 204-001

ATWS - Train warning system

ideal for temporary and mobile operations

Reliable multi-sens alerting

due to permanent radio monitoring

Extremely simple installation

for the quickest installation and dismantling

Technical data

Light source: Light color:

Power supply type: Operating voltage: Operating time:

Color: Assembly: Sound volume:

Wireless range: Radio frequency: LED yellow / orange

Rechargeable battery / Solar 12VDC Self-sufficient with solar power

> blue magnetic (Wheel Sensor) 126dB

up to 3km 465.85MHz (403MHz - 473MHz) 433MHz / 868MHz / 915MHz country-specific customisable

standby, alarm, technical alarm

visual, audible and haptic (-20°C) - 50°C Videos:





Verkehrstechnik Technique du trafic Traffic Control Engineering

Work modes:

Warning: Temperature range:

Characteristics

- Simple installation due to one main switch and LED displays
- Modular system design for flexible requirements with standard applications
- Due to the radio repeater, it is possible to bridge distances of several kilometres between the detection of the train and the construction site
- The individual modules are identical in design and interchangeable with each other and recognise independently which function they need to perform in the overall system
- Personal pager for additional warning as an extra option
- Cost-effective train warning system for temporary and mobile usage
- Fail-safe function due to permanent radio monitoring
- Multi-sensor alerting through sound, light and vibration
- Complete system can be operated self-sufficient with solar power
- Radio strength display for stable operation
- Wheel sensor SILO-tested

Installation

Assembly and disassembly is very quick and easy:

- 1. Attach the magnetic wheel sensor to the inside of the rail using the assembly jig
- 2. Pull the cable underneath the track
- 3. Connect the cable to the base station
- 4. Connect the long range radio module to the base station
- 5. Switch on the base station, wait for automatic sensor calibration
- 6. Use the wheel sensor to specify the direction of travel with the wheel flange simulator
- 7. Install the next base station as a repeater or as an end station



RAILALERT-Set

Micro construction site

Article no.: 204-071

Consisting of:

- Base Station
- Personal Pager (3 pcs.)
- Disk Horn
- Charger
- Transport Box

Detection

Article no.: 204-001

Consisting of:

- Base Station
- Wheel Sensor
- Assembly Jig for Wheel Sensor
- Wheel Flange Simulator
- Long Range Radio Module
- Antenna Mast
- Disk Horn
- Charger
- Transport Box

Alerting

Article no.: 204-011

Consisting of:

- Base Station
- Long Range Radio Module
- Antenna Mast
- Personal Pager (3 pcs.)
- Disk Horn
- Charger
- Transport Box







Standard applications

Micro construction site

• Alarm is triggered by the security guard by manually pressing the pager

Consisting of:

• 1x RAILALERT set micro construction site



Unidirectional traffic

- Alarm is triggered by the wheel sensor **or** the pager
- Train only approaches from one direction

Consisting of:

- 1x RAILALERT set detection
- 1x RAILALERT set alerting



Bidirectional traffic

- Alarm is triggered by the both wheel sensors or the pager
- Train approaches from both directions

Consisting of:

- 2x RAILALERT set detection
- 1x RAILALERT set alerting



Base Station

Article no.: 204-100

Technical data

Dimension (LxWxH): Weight with battery: Wireless range: 282mm x 215mm x 423mm 9.5kg Long-Range: up to 3km Near-Field (Pager): 100m

Characteristics

- Reliable multi-sense alerting due to permanent wireless monitoring
- Can be used universally identical in construction as a detection, repeater or alarm station
- Vibration warning by pager as an additional option
- Maximum safety due to permanent radio monitoring
- Alarm message in the event of train detection
- In addition to the alarm, the technical alarm indicates a system error
- Long operating time of 5 days



Wheel Sensor

Article no.: 204-110

Technical data

Dimension (LxWxH):400mm x 155mm x 70mmWeight:5.4kgSafety integrity level:SIL0

- Safe function due to the fail-safe principle
- Quick installation by using the magnetic holder and assembly jig
- Can be used worldwide on all track types for wheel detection
- Possible speeds: 0 km/h 450 km/h
- Possible wheel diameters: 300 mm 2100 mm
- Mounting with the magnet enables quick installation and removal, especially suitable for temporary and mobile construction sites





Assembly Jig for Wheel Sensor

Article no.: 204-120

Technical data

Dimension (LxWxH): Weight: Form: 535mm x 165mm x 190mm 1.41kg adaptable to various track types

Characteristics

- Ideal guidance for mounting the wheel sensor magnetically
- Can be used universally on all track types
- Quick and easy installation due to magnets and stoppers
- Adjustable stoppers allow the assembly jig to be adjusted to any track type
- Quick-release clamps bring the assembly jig into the correct position on the rail head
- Optical detection to ensure the wheel sensor is set correctly

Personal Pager

Article no.: 204-180

Technical data

Dimension (LxWxH): Weight: Wireless range: 120mm x 80mm x 40mm 0.19kg 100m

- Manual alarm triggering through manual activation by pressing the button
- The alarm appeals to several senses of the body (visual, acoustic and haptic)
- Permanent radio connection
- When leaving/entering the secured area, the personnel pager logs out/in
- Simple operation due to a single switch (ON/OFF)
- Status is displayed by red/green LED
- Smartphone size with belt clip









Long Range Radio Module

Article no.: 204-140

Technical data

Dimension (LxWxH): Weight: Wireless range: 200mm x 135mm x 700mm 2.75kg up to 3km

Characteristics

- Up to 3km radio distance
- Expandable with peripherals via plug connection
- Long range radio module to bridge long distances between train detection and alarm signalling
- Two plug-in contacts to connect additional alarm accessories, such as the disc horn or the solar module, for self-sufficient operation of the RAILALERT system



Solar Panel

Article no.: 204-210

Technical data

Dimension (LxWxH):	645mm x 345mm x 200mm
Weight:	3.8kg
Peak Power:	30W

- 100% self-sufficient operation of a complete RAILALERT set
- The solar panel generates enough energy to power a RAILALERT base station independently
- Due to the flexible tube mounting option, the solar panel can also be fixed to the antenna mast, like all other modules of the RAILALERT system
- The solar panel can either be plugged directly into the base station or into the long range radio module on the antenna mast





Disk Horn Article no.: 204-160

Technical data

Dimension (LxWxH): Weight: Sound volume: 245mm x 91mm x 70mm 0.47kg 110dB

Characteristics

- 110dB volume for an effective warning
- Flexible alignment due to magnetic mounting
- Effective acoustic warning device
- Amplifies the acoustic warning of the base station
- Shrill audio frequency to increase awareness
- Space-saving additional warning device



Antenna Mast

Article no.: 204-150

Technical data

Dimension (LxWxH): Weight: Form: 880mm x 430mm x 110mm 1.8kg Telescopic tube

- Fast installation without any additional tools
- Stable stand due to the solid base plate
- Telescopic for various working heights: 1165mm 3900mm
- Universal mounting option on the round tube for various peripherals (e.g. long range radio module, solar panel)
- With integrated ejector spring for quick installation





Charger Article no.: 204-200

Technical data

Dimension (LxWxH): Weight: Charging time: 115mm x 50mm x 35mm 0.32kg 24h

Characteristics

- RAILALERT base station fully charged within 1 day
- Country-specific use due to C7 plug
- IU₀U charging characteristic for lead-acid batteries
- Charging with CA 6 LD round plug coupling for standard RAILALERT interface



Transport Box

Article no.: 204-190

Technical data

Dimension (LxWxH):800mm x 600mm x 340mmWeight:12.2kgMaterial:PP

- Spacious box storage for all the RAILALERT utensils of one set
- Can be equipped individually
- Folding handle for optimal carrying comfort
- Up to 8 boxes can be stacked on a Euro pallet





Wheel Flange Simulator

Article no.: 204-130

Technical data

Dimension (LxWxH): Weight: Form: 200mm x 81mm x 82mm 0.61kg Wheel flange

Characteristics

- Manual actuation as an aid for manual triggering and configuration of the wheel sensor
- Mechanical guidance on the rail
- Grinding on the rail over the wheel sensor triggers it
- Simple simulation of a wheel flange
- Test equipment



Signal Horn on Tripod

Article no.: 204-170

Technical data Horn

Dimension (LxWxH):	375mm x 250mm x 220mm
Weight:	9.4kg
Sound Volume:	126dB

- 126dB volume for intensive warning effect
- Can be set up universally on all surfaces due to the telescopic tripod
- Visual and acoustic warning
- Manual triggering possible with push button
- Standalone operation possible with integrated rechargeable battery
- Battery charged by the system, charger or solar panel





Mobile Carrying Unit

Article no.: 204-220

Technical data

Dimension (LxWxH): Weight: Base: 580mm x 350mm x 950mm 3.65kg self standing

Characteristics

- Local intensive warning with portable base station
- For mobile work zones
- Maximum carrying comfort in cooperation with Tatonka
- Same carrying comfort as a trekking rucksack





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