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systemVLIT

VLIT TAG A1 ATEX

Active TAG for mines and explosive environment

VLIT TAG A1 ATEX is an active tag communicating with VLIT AP A1 ATEX reader independently on any person activity (completely hands-free operation).

This tag is intended for use in mines and explosive environment. Tag can be implemented in mine equipment (e.g. mine-lamp) or can be fixed on any mine machine.

Together with Readers and Software application it completes the smart zone monitoring system to ensure safety of each employee in mine area and improve logistics for effective control.

Integrated accelerometer can detect motionless tags.

General Specification:

- Licence-free ISM band 868 MHz
- Bidirectional non-collision long range communication
- Integrated antenna for communication with reader
- Integrated accelerometer
- Powered by mine-lamp (in case of tag implementation)
- Internal memory to save user data and configuration (1024 B)
- Unique serial number for reliable personification (serial number: 6 B)

Technical Parameters:

- Dimension: 60 x 27 x 7 mm
- Weight: 4 g
- Operation temperature: 0°C ... 40°C (with relative humidity 0 ... 90%)
- Protection class: IP 67 (completely encapsulated module)
- Power supply voltage: 3 - 8V DC
- Power consumption: 40 mA in peak / 20μA average (depends on operation mode)
- Communication interface with reader: RF ISM 868 MHz
- Communication range: up to 200 m (depends on installation environment)
- Data rate: 1,2 – 500 kBaud
- RF power: 10 mW

Certification:

- ATEX certification for using in explosive environment (according to directive 94/9/EC)
- EMC/ERM testing
- Declaration of conformity

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Specifications are subject to change without prior notice.

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