BLEO LOCATION SYSTEM BASED ON BLE TECHNOLOGY

General system description:

The BLEO location system is an integral set of transmitters, scanners and applications called a system. It allows you to locate objects and people in industrial conditions. The system uses active BLE (Bluetooth Low Energy) technology. The system includes:

1. BLEO-Transmitter (BLEO-T)
2. BLEO-Scanner (BLEO-S)
3. BLEO Application

Technical data:

BLEO-Transmitter (BLEO-T)

1. Chipset: CSR1010 or EFR32
2. Wireless communication: Bluetooth 4.0, BLE
3. Broadcast data format: Eddystone™
4. BLE frequency: 2402-2480 MHz
5. BLE output power (max.): +8dBm or +20dBm
6. BLE modulation: GFSK
7. Antenna: internal PCB
8. Power supply: CR2032 battery
9. Operating temperature: -20 - 45°C
10. Humidity: 20 - 80% RHG
11. Weight: 5 - 30 g
12. Housing dimensions: Ø 32 mm x 9,5 mm
13. Housing material: plastic
14. Ingress protection: IP61

* The photo shows one of the available versions

BLEO-Scanner (BLEO-S)

1. Processor: Broadcom BCM2837B0 64-bit
2. Core: Quad-Core ARM Cortex-A53
3. Frequency: 1,4 GHz
4. Architecture: ARMv8-A
5. RAM memory: 1 GB LPDDR2 SDRAM
6. Memory card: microSD 16 GB
7. USB ports: 4x USB 2.0 type A socket
8. LAN interface: 1x RJ-45 100/1000 Mbps
9. Wi-Fi interface: Dual Band 2,4 GHz and 5 GHz 802.11 b/g/n/ac
10. Wireless communication: Bluetooth 4.2, BLE
11. Operating system: Linux
12. Power supply: 5,0 V / 2,5 A through microUSB port
13. Operating temperature: 0 - 50 °C
14. Housing dimensions: 99 x 62 x 30 mm
15. Housing material: ABS

Requirements:

BLEO Application

1. Operating system: MS Windows 7/10 Professional
2. RAM memory: 4 GB min.
3. Hard drive space: 15 GB min.
4. Database: MS SQL Server 2019 Express Edition with Microsoft SQL Server Managment Studio v18.6
5. Application technology: ASP .NET (required to run application: Dotnet-hosting-2.2.2-win oraz Dotnet-hosting-3.2.1-win)

* The photo shows an exemplary visualization made in the Wonderware System Platform software

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Symbols - examples:

Location of the serial number and CE mark on the BLEO-Transmitter (BLEO-T)

Location of the serial number and CE mark on the BLEO-Scanner (BLEO-S)

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