IDESCO

Passive, long-range ID: cost-effective security

It's already well-known that passive long-range RFID makes automatic vehicle identification (AVI), driver identification and other long-range identification easier. However, less people are aware it also offers important security benefits over active technologies. For example, Idesco's passive RFID can now reliably identify your tag from several meters away, enabling your vehicle to enter a parking garage or pass through security gates, effectively without stopping. In high-risk areas, or at night, such capability could mean the difference between secure, rapid transit – and a potentially dangerous exposure.

Equally important, since passive identifiers (or tags) don't require or possess batteries, they stay on-the-job in all environments and the worst weather conditions, effectively lasting forever. Therefore, with Idesco's passive UHF RFID technology designed to identify moving vehicles at a distance, it's the sensible choice for either security-critical or user-friendly AVI applications.

Passive UHF (Ultra High Frequency) radio frequency identification technology is an ideal solution for automatic vehicle identification (AVI) and driver identification in secure transit and parking applications. Idesco's passive UHF readers readily recognize tags at distances up to five metres (and sometimes beyond) on the windshield of a moving car, ensuring drivers won't be forced to stop for identification, let alone open their windows to type access codes or push a key to get a ticket. More importantly, passive UHF technology remains robustly reliable in heavy rain or subfreezing temperatures.

That's because since passive UHF tags are unpowered – they don't need batteries. Tags simply 'harvest' some of the energy broadcast from a reader to 'bounce back' their replies. This simple, elegant solution sidesteps the shortcomings of active (i.e., battery-powered) technologies: short tag lifetimes, vulnerability to cold and humidity and high cost. Our UHF readers will reliably detect the small tags you place on car windshields, easing and speeding your management of transiting vehicles. Additionally, our UHF tags can be either permanently or temporarily installed on a windshield. Depending on the type you deploy, an AVI tag might also double as a personal access control credential for entering a building.

Idesco's UHF solutions have already been deployed across a variety of vehicle and driver identification settings, e.g., at airports, parking facilities, industrial and mining sites all over the world. Feedback for our solutions from clients and their customers has been uniformly excellent. Of course, Idesco long-range products are compliant with European regulations.

Unbeatable technology

Superior user-friendliness, reliability, cost-effectiveness and lower maintenance costs have rapidly increased demand among system integrators for our latest generation of long-range identification solutions. With such benefits, Idesco's passive long-range products are a popular choice for AVI and driver identification applications, in particular. If your application demands the highest security, Idesco also offers proprietary, closed-technologies available only through a defined set of vendors. Notably, our closed-technology solutions will make it easier and faster to find and manage a particular tag within your system and are well-suited for systems with a large number of tags.

Idesco currently offers a wide selection of UHF-based Idesco EPC readers and tag products, that will readily integrate into the most common controlling systems, including via Ethernet.