

traffic light REPORT

Magazine for traffic engineering



beep beep and or Chit-chat!



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EDITORIAL

*Ladies and gentlemen,
Dear readers,*

By the end of 2019, it had become clear that all areas of traffic technology are now thriving. In fact, I would go a step further and say that I have never before experienced such a sense of growth and optimism in this sector!

Major innovations are set to be presented at forthcoming flagship trade fairs, and are certain to play an important role in shaping smart mobility. INTERTRAFFIC 2020 in Amsterdam and the ITS World Congress 2021 in Hamburg will bring thousands of visitors from the industry together. We're looking forward to these opportunities for dialog because the mutual exchange of ideas and information helps us move forward.

We at RTB will, as always, face change with courage. Indeed, we have recently been testing many new products – and are very pleased with the results. One example is the use of LOC.id on local public transportation, which we are currently testing in Halle (Saale).

I wish you all a very happy and successful New Year!

Sincerely,

Rudolf Broer



A successful pilot project with courageous partners

LOC.id on local public transportation

For every innovation, we need to find dedicated and courageous partners. And that's exactly what RTB found in the city of Halle an der Saale, where the LOC.id system is being used for the first time worldwide on local public transportation. So far, the findings are very encouraging – indicating many advantages for vulnerable road users.

It is becoming ever more difficult for our fellow human beings who are blind or visually impaired to safely navigate increasingly complex traffic systems. In addition, conflicts of interest with residents living near traffic signals have been arising with growing frequency for some time now. In Halle (Saale), RTB has equipped one set of traffic signals and several trams with LOC.id in

order to acquire experience of this additional orientation aid in action. Blind and visually impaired road users have been testing control of the system with an app and handheld transmitter.

Early feedback, in particular from test participants, indicate that we are definitely on the right path. Following this test phase, RTB will conduct an evaluation, which may potentially give rise to additional development requirements. After that, we may identify additional areas of applications, for example within local public transportation in the entire federal state of Saxony-Anhalt.

Incidentally, the LOC.id system is already being tested in over 30 cities across Germany. Not to mention several international locations – in Austria, Switzerland, the United States, and Canada.

Turn to page 4/5 to find out more





A world first Halle (Saale)



LOC.id – the best orientation aid for blind and visually impaired users

In various locations worldwide, the LOC.id system is now being tested on local public transportation for the first time. The city of Halle an der Saale and local transport operator Hallesche Verkehrs-AG have equipped trams and traffic light systems in the city with proven technology from RTB. This technology is already working well in other cities, in particular at busy intersections.

Modern innovations like the LOC.id system can make it much easier for blind and visually impaired road users to find their way around, while also enabling the best protection for residents. The additional orientation aid draws on communication between the traffic control system and road users. As a result, heavy traffic volumes and extremely loud background noise are no longer insurmountable problems.

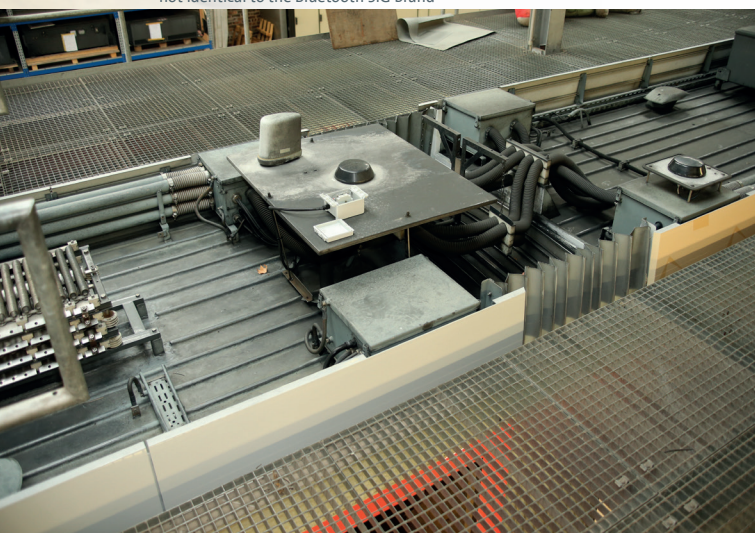
LOC.id is based on Bluetooth* and is ideal for use in traffic light systems or for passenger information. Users can trigger the relevant signals either on a handheld device or in an app on their smart-

phone. When the user approaches a traffic light system that is equipped with a receiver, they are detected and an amplified orientation signal is emitted. All settings can be configured individually.

During the test phase in Halle (Saale), the tram informs the user of the line and the final destination at each stop, once it has detected the handheld device or the app. Meanwhile, the traffic signals that are being tested emit signals for orientation when a blind or visually impaired road user approaches them and for as long as they remain within a defined zone around the signal.

“In RTB, we found a partner who can meet our needs”, says a satisfied Peter Kolbert, Project Manager for Technology/Infrastructure at Hallesche Verkehrs-AG. The partners involved unveiled the project to the public at a recent press conference and were met with a favorable response across the board – LOC.id has the potential to further improve harmony among all road users!

*not identical to the Bluetooth SIG brand





U N I F O R M STANDARDIZATION

The DIN Standards Committee is currently working on standardizing an app for blind and visually impaired road users. Over the coming months, an international dimension will also be added to this initiative. Clear and unambiguous signals are essential.

beep beep and or Chit-chat!



Smart mobility is not only advancing development of the car of the future. All traffic systems will be impacted by the advent of the new technology. This is true in particular of traffic light systems, where many innovations are currently coming into play. RTB is already operating “talking” traffic signals in North America.

When a blind or visually impaired person approaches these traffic light systems, they can expect to receive more signals in the future. An announcement as the person approaches the traffic signal mast, an announcement as they approach the street, a reverse countdown – all of this is already a reality in many locations. However, RTB recommends careful use of this innovative technology, as it is associated with additional maintenance costs.

At the same time, RTB supports the development of an app for blind and visually impaired road users, as well as the initiative on the part of organizations for the blind to ensure standardization. After all, the question must be answered as to how blind users can navigate their way around concepts such as virtual stops, for example (as used by the MOIA ride-sharing service in Hamburg).



Car-to-

The cars we drive today bear little resemblance to those of yesteryear. Alongside its many benefits, electric cars also have one major drawback – because they are so quiet, it is very difficult for their presence to be detected by blind and visually impaired road users. Accidents have already occurred due to blind pedestrians' failure to notice e-cars.

Several working groups and forums are therefore working towards the introduction of warning signals for electric cars, which could also be detected by people with additional needs. Smart mobility and shared mobility will only work if all road users can be included.

This will also require a re-think of how traffic light systems are equipped to handle this technology. The goal should be to ensure that traffic light systems can detect vulnerable road users and send a corresponding message to vehicles approaching the area of conflict. Obviously, signal standardization will also be essential in this regard.

Certificate

Certificate of PCI Compliance

Adsigno AG confirms that RTB GmbH & Co. KG has been assessed and was found to be compliant according to



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mit den Standorten gemäß Anlage

Client Reference: Mr. Sven Rossa
R10.14
6.60950-1-07+A1:2011+A2:2014

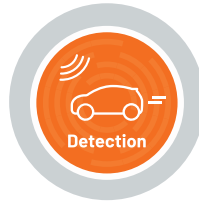
and touch button (for Traffic Light Systems)

KB-S 110V; BLX KB 110V;	(a)	7
FTM 110V; BLX PT 110V	(a)	
A PiT; B; B PiT; C+; C+ PiT;	(b)	
; D+ PiT; E+; E+ PiT; F; F PiT;	(b)	
G PiT; H; H PiT; I+; I+ PiT	(b)	
C 110 V / max. 500 mA	60 Hz	(a)
C 110 V / max. 100 mA	60 Hz	(b)

27.03.2019 (Änderung)

TUV Rheinland Cert GmbH
Am Grauen Stein · 51105 Köln

Date of Issue
(day/mo/yr)
29/06/2019



TOP QUALITY

Ongoing certification at an international level

Quality without compromise – this is what RTB has stood for ever since it was established. Now, more than ever, we are focused on having our products and processes approved externally. Thanks to our diverse range of international activities, we have amassed many additional awards and certificates over the years.

TÜV, VDS (P3 and P4), FCC (wireless) – these certifications are well known, even outside the industry. However, the complete list of abbreviations representing the certificates awarded to RTB is much longer. NEMA, PTB, PCI, CSA and UL – all of these are important certifications that guarantee the quality of our products.

Independent auditing of our standards plays an important role for RTB – for one thing because these standards can by no means be taken for granted in the market as a whole. It is also worth noting that the certification procedures that RTB undergoes on a regular basis not only apply to our extensive product portfolio. RTB naturally also has certificates approving the payment procedures that are so important in our parking ticket machines.



PARKING

..... ON THE UP AND UP

Increasing focus on staff parking garages

The topic of parking has grown tremendously in importance for RTB. Over the course of 2019, the company became fully established in the area of staff parking garages in particular. And the reasons for this are clear – the intelligent combination of balanced parking, single parking space detection and fast charging.

Both companies and public bodies are very interested in being able to quickly direct their staff and customers to free parking spaces and to provide sufficient power to charge their electric cars. This has produced a strong trend whereby existing parking garages are being converted, while new ones are being equipped with the very latest technology from the start.

All of which is in keeping with the fact that Germany is preparing itself for electromobility on a large scale. Finding a parking space quickly saves time and energy. There is also a desire to ensure clarity in parking garages by means of informative displays. RTB acts as a full-service provider in this regard, and ensures easy assembly of all products.

It can therefore be assumed that modern parking will receive a great deal of attention at INTERTRAFFIC 2020 in Amsterdam. RTB will present not only our full-service offering of parking ticket machines that support almost all payment systems, but also our charging solutions for electric vehicles at the event.



An additional application for the TOPO classification system

Reducing (motorcycle) noise

Precise traffic data recording – over the past number of years, the TOPO classification system from RTB has made nothing short of triumphant progress in this increasingly important area of traffic planning and control. And the demand for TOPO has been growing recently in connection with the reduction of noise caused by road traffic, in particular by motorcycles.

Optimized control of traffic flows is at the top of the agenda at every level. Avoiding congestion, monitoring emissions and noise levels, and recording data through recurring road traffic census are all gaining in importance. Devices in the TOPO product family, which are certified by the German Highway Research Institute (BAST), detect vehicles and classify them into various classes.

As RTB can record many different types of data with TOPO, the system has multifunctional applications. There has been a substantial increase in the number of inquiries we receive in relation to its use in the reduction of noise from motorcycles. RTB has already successfully commissioned several devices within this specific area of application. And here, too, it is clear that reliable data enables the introduction of specific and effective measures.



2020

Amsterdam
21 to 24 April 2020
Hall 12
Booth 200



The details of next year's major international trade event for traffic technology has been announced. All traffic technology experts will be meeting once again in Amsterdam from 21 to 24 April 2020.

INTERTRAFFIC 2020 will retain the international appeal for which the event is renowned and will once again serve as a hub for innovation. RTB will be delighted to attend and present several new developments, including innovative parking space sensors.



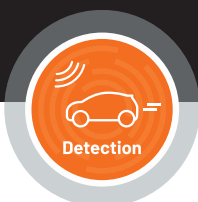
Frankfurt's iconic traffic-light woman

Frankfurt has a new traffic-light man – or rather, woman! At one intersection in Alt-Sachsenhausen, the traffic lights proudly display the iconic figure of “Fraa Rauscher” – a local market trader of legend, who features in the city's famous “Apfelweinlied” cider song. This traditional ballad originated in “Alt-Frankfurt” – a theatrical comedy by Adolf Stolze, first performed in 1887 and now elevated to cult status in Frankfurt am Main. “Fraa Rauscher”, more than any other figure, represents Frankfurt's “national” drink of “Apfelwein” (apple cider) or, in the local dialect, “Äpfelwei”.



New – universal voltage conversion

New device variants enable a simple conversion of acoustics from 230V to 40V. This option facilitates the upgrading of traffic signals that are still operated with 230V. At a later point, these can simply be converted to 40V or 24V. The push button will naturally also be included in the conversion.



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