ZÖLLNER

Product Innovations

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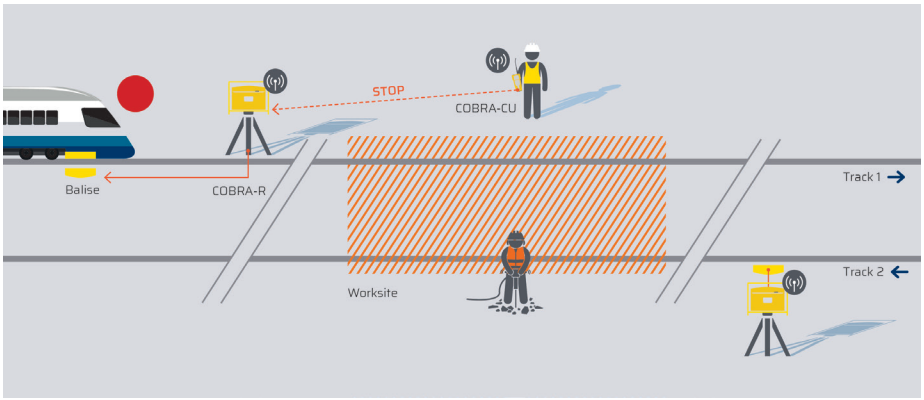
COBRA: Remote Control of Eurobalises Thanks to New Solution

COBRA stands for 'Control of Balises with Remote Assistance' and serves the purpose of being able to influence (to brake) a rail vehicle with the help of the additional components (Euro)balise and (mini) LEU depending on the dangerous situation (for example in front of a worksite). The system is designed in such a way that the default state prevents a train from passing and the operator must actively confirm that the track is clear. The confirmation is carried out by operating the control unit, which switches the telegram of the balise by radio. The radio range of the system is at least three kilometres, and up to six kilometres when repeaters are used. This system works autonomously and independently of higher-level (train control) systems.

Control Unit COBRA-CU

The control unit (COBRA-CU) can remotely control up to four receiver units / **COBRA-R** (and thus balises). It communicates with the **COBRA-R** via radio. The **COBRA-CU** is equipped with a replaceable battery. With a reaction time of less than one second, the **COBRA-CU** is able to process the information safely and in a timely manner (send and receive to COBRA-R and evaluate and control the LEU and balise).



Find out more about our COBRA System: ***PDF Datasheet COBRA***

Receiver COBRA-R

The **COBRA-R** receiver unit serves as an interface between LEU and **COBRA-CU**. It switches the balise remotely via the LEU. The receiver is also equipped with a portable battery and is designed to operate for several days. The units are configured with each other using RFID cards.

Alternative Cloud Use Cases: ZCloud is Growing

In addition to the mobile radio warning system (MRWS), more systems are now equipped with the ZCloud. A recent example is our ZÖLLNER Level Crossing System (ZLX). At first a test phase will be started with existing material from the rental pool, whereby the connection will be realised via a tracker module provided for this purpose. In the beginning the available functions are the same as for the MRWS. Information like the system and device status, revision data, serial numbers and error codes of all active MRWS systems can be queried at all times. Furthermore,

information about the location of the system and the logbook are provided. Status changes of all integrated components are listed chronologically. In the future, the portfolio of existing products with a connection to the ZCloud, such as those planned for the Zöllner Speed Control Unit (ZGP), will be further expanded. In the long-term, almost all products should benefit from the fact that the information is available in the cloud at any time, independent of location and device, via login.

PDF Datasheet MPX

MPX: New Cable Monitoring System Reduces Delay Minutes

The MPX V3 system monitors the cable infrastructure, reports deviations at an early stage and can thus detect declining cable quality. By means of patented sensors, moisture values in the nodes as well as insulation values in the cable are determined and the cable condition is evaluated on the basis of these. It is now possible to specifically identify potential for repair and to derive measures before these faults result in a failure of the infrastructure. Furthermore, it can be precisely distinguished whether these faults originate from the cable itself or from the nodes. The system has been approved for use by Deutsche Bahn and has already proven itself in operation.

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