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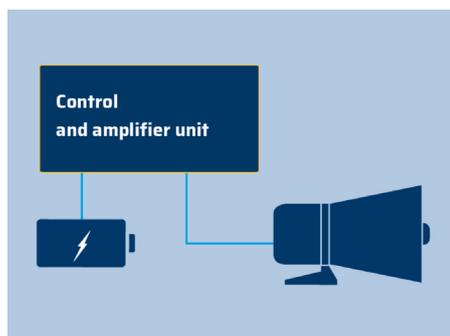
## Electrical Makrofon EM660/370 TSI

By: Anna Berning, Sales Manager ZÖLLNER Signal GmbH

ZÖLLNER has been producing compressed air-operated signal horns for rail vehicles for over 75 years.

Thanks to this long-standing experience, we have gained an edge in knowledge that makes us a reliable partner of vehicle manufacturers. ZÖLLNER Makrofons are flexible, user-friendly, well-designed and supplied with all the relevant certificates. Increasing demands on the material, documentation and safety support us in offering high-quality and reliable products. We place particular emphasis on compliance with environmental requirements such as REACH, RoHS and EN 45545.

Our current product portfolio for rail vehicles includes a wide selection of signal horns with



The electric actuation of our electrical Makrofons offers a signalling variant that is quickly operational and is independent of the compressed air supply



different frequencies. With our new Electrical Makrofon EM660/370 TSI, we are offering a solution for signalling that is independent of compressed air. The Makrofon consists of the speaker ZETFON 70S (horn) and the control and amplifier unit. Each horn provides two frequencies, for example 370Hz and 660Hz. We will gladly offer you alternative frequencies according to your needs.

Optional protection grids protect the funnels against external influences such as chippings, dust and snow. Optional features include announcements via microphone, a 'ready for use' indicator for the driver's cab and an internal signal protocol with real-time stamp.

Together with our customers and partners, we also modify our products and develop individual solutions to provide our customers with the ideal device solution.

Find out more about our Electrical Makrofon EM660/370 TSI: [PDF Datasheet MakrofonEM660](#) and about the other solutions we offer: [PDF Makrofon Brochure](#).

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**ZÖLLNER**  
signal system technologies