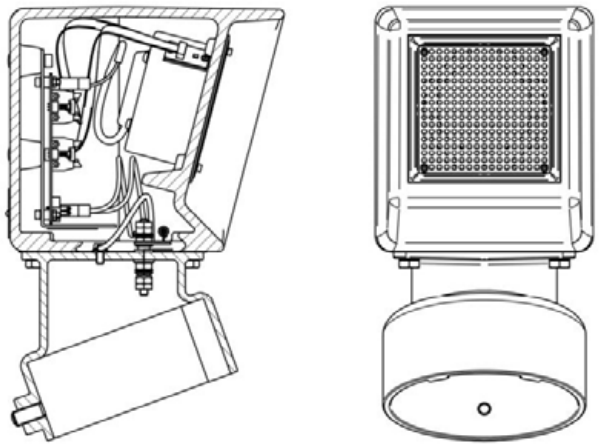
Adaptive Sm@rt bell
(Automatic Level Adjusting bell)

The Sm@rt bell electronic bell warns road users of an approaching train or tram by means of an acoustic signal.



PRODUCT BENEFITS

- Sound and volume customizable per customer
- Sm@rt bell adjusts its audible signal to ambient noise levels
- Available in various connection voltages
- Solid and weatherproof die-cast aluminium housing
- Can be used as a stand-alone surface-mounted unit
- Audible signal contributes to additional safety for visually impaired road users

OPTIMAL SOUND

The electronic bell type Sm@rt bell is used at level crossings and bridge closure systems. The sound level of the Sm@rt bell is adjusted to ambient noise levels and therefore emits a lower noise level in a quiet environment. This can be a solution for reducing noise pollution for local residents. Because the bell housing is made of cast aluminium, it is suitable for use in all weather conditions, including tropical climates. The Sm@rt bell is available in a large number of different connection voltages. As a result of these innovations, the Sm@rt bell can be used in virtually any environment.

The sound level is adjusted to ambient noise levels to reduce noise nuisance for local residents.
The Sm@rt bell is often used in combination with XC lights and possibly a level crossing.

Technical specifications Sm@rt bell

Material	cast aluminium (surface mounted)
Weight	6.4 kg (surface mounted)
Colour	RAL 9005 (black)
Main dimensions	220 x 175 mm (excluding post mounting)
Protection class mechanical	IP 44 as per IEC-529 (surface mounted)
Loudspeaker	IP 67 as per IEC-529
Supply voltage	10-18 Vdc
Power supply	≤ 10 VA
Noise	standard as per EBA 1.3.
Sound pressure level	Nominally 20 dB(A) above the measured ambient level with a minimum of 75 dB(A) and a maximum level of 90 dB(A), both measured at 2 metres perpendicular to the centre of the speaker.
Sound pressure options	For elevated noise levels, 20 dB(A) and 23 dB(A) can be selected. For minimum noise levels, 75 dB(A) and 78 dB(A) can be selected. For maximum noise levels, 87 dB(A) and 90 dB(A) can be selected. These options can be set on the bell itself using the dip switches.
Sound mapping	The sound mapping allows sound levels to swell to 20 dB(A) above measured ambient levels, up to maximum levels, in a maximum of 5 seconds. 10 seconds after switching on, sound levels drop by 5 dB(A) in 7 seconds, but never below the minimum level.
Operating temperature	-25 °C and +50 °C, as per IEC 68-2-38.
Voltage-current pulse test	As per IEC 801-5 level 4
Isolation value	3 kV

VRS Railway Industry bv

een Koninklijke VolkerWessels onderneming

Want to find out more about our products and services?
Go to www.vrsrail.nl or contact us by e-mail or phone.

VRS Railway Industry bv
Vleugelboot 32A, 3991 CL
Houten, NL
T: +31 (0)30 694 39 54
E: info@vrsrail.nl
I: www.vrsrail.nl