

radiomatic® range control

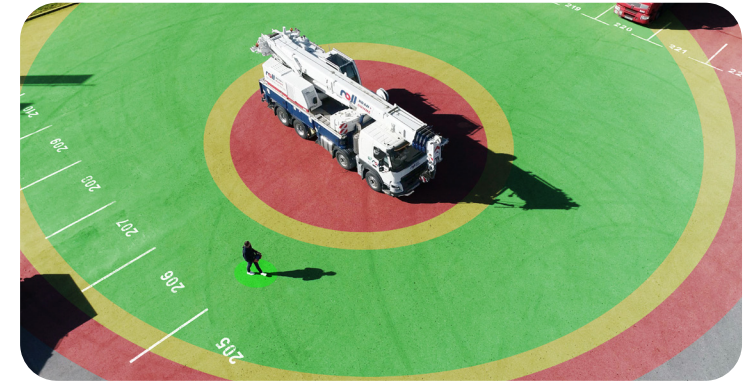
Keeping your operator in a safe place.



radiomatic® range control



Typical applications:



What is your application?

We would be happy to advise you on all aspects of the safe operation of our products, service and maintenance. Our experts are at your side when it comes to the selection of the right solution for your application.

Just contact us:

HBC-radiomatic GmbH, Haller Strasse 45 – 53, 74564 Crailsheim / Germany,
Phone +49 7951 393-0, sales@radiomatic.com



See this new feature in action with
our radiomatic® range control video:
<http://bitly.ws/AUJo>



www.hbc-radiomatic.com

© 2023 HBC-radiomatic GmbH | PL radiomatic_range_control | 17/2023 | Specifications and design subject to change without notice! No part of this document may be reproduced in any manner whatsoever without the expressed written permission of HBC-radiomatic GmbH.

radiomatic® range control



When operating heavy machinery, only a safe distance is the right distance. Getting too close to an activated machine can be just as dangerous as controlling without seeing the machine and the work environment. The solution is radiomatic® range control. By detecting the operator's distance to the machine, this intelligent assistance feature keeps personnel and equipment always in a safe distance. The radiomatic® range control can be used for proximity or far field control, or both.

Benefits at a glance.

- As a proximity detection solution, radiomatic® range control protects the operator from getting unintentionally in the machine's driving path or within the movement radius of machine components.
- As a far field detection solution, radiomatic® range control prevents the operator from driving the machine out of safe view and accidentally moving it dangerously towards personnel or hitting obstacles in its path.
- radiomatic® range control is a very valuable and intelligent safety assistance system for the operator and his working environment.
- The machine reaction resulting from an operator alert can be individually defined.
Examples: reduced machine speed, horn, acoustic signal, transmitter vibration.

How it works:

- Radial range areas with a STOP zone, a warning zone and a safe zone are defined around the machine.
- In this way, the minimum distance between the operator and the machine can be defined for a proximity control.
- As a far field control, the radial range areas can be used to define the maximum distance between the operator and the machine.
- As soon as the operator enters the warning zone, radiomatic® range control triggers an operator alert and a pre-defined machine reaction.
- Entering the STOP zone triggers an immediate stop of the machine.

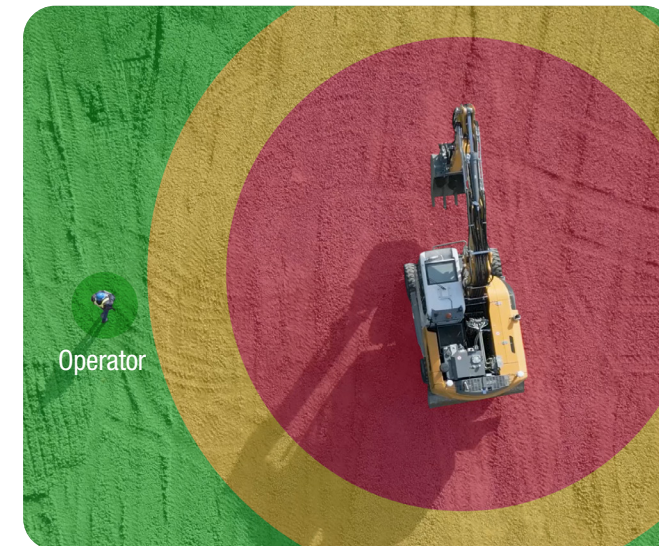


radiomatic® range control sensor unit defines anchor position for the operating ranges.



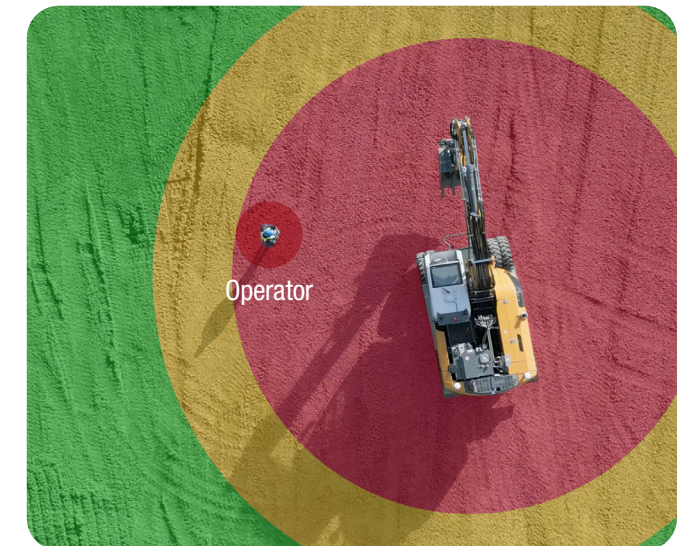
The sensor unit can be positioned independently from HBC's radio receiver.

Proximity control – example scenario 1:



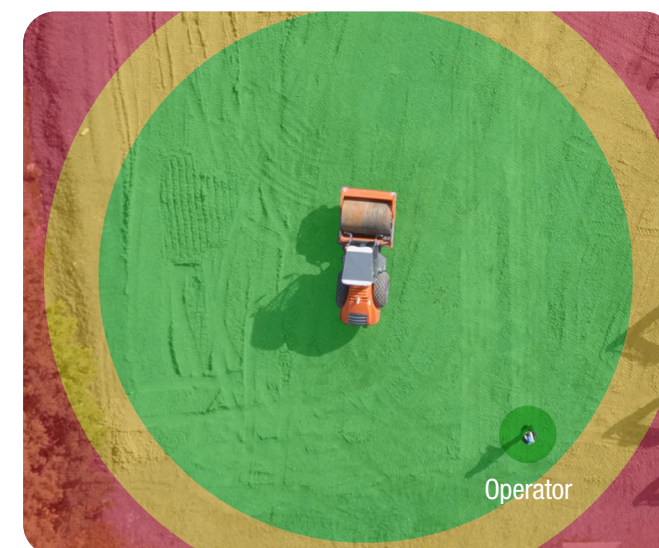
The operator's position is within the green zone. They are working with a safe distance to the machine. All machine functions are operating at normal speed.

Proximity control – example scenario 2:



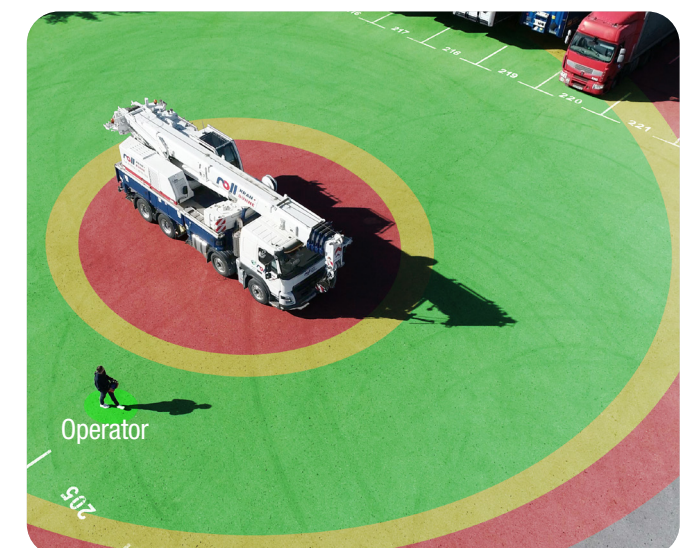
The machine or the operator or both have moved. Their position is now in the STOP zone. The radiomatic® range control has triggered an immediate stop of the machine.

Far field control – example scenario:



The operator's position is within the green zone. They can control the machine safely on sight. All machine functions are operating at normal speed.

Combination of proximity & far field control – example scenario:



The operator is in a safe distance. They are not too close to the vehicle and, at the same time, have an optimal view of the vehicle and the working environment.

Safe zone: ● Warning zone: ● STOP zone: ●