

R-Loop as a photocell substitute

Device family: Radar scanners

Topic:

The EN 12453 prescribes that personal protection must be guaranteed for power-operated systems - for barrier systems operators, this means that the contact between the barrier boom and a person in the safety zone must be avoided. The R-Loop can be used in its entirety as a photocell substitute and can also replace 2 induction loop functions.

NOTE:

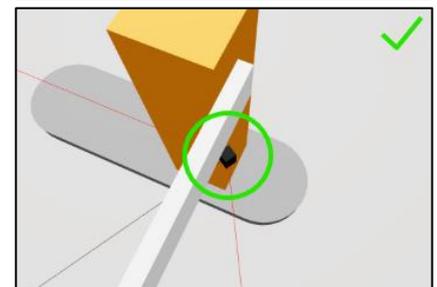
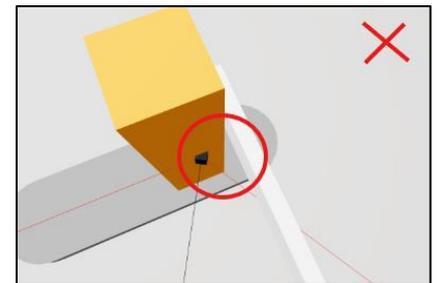
Please note that the use of the R-Loop does not compensate for the forces to be applied to the barrier. The maximum force exerted by the motor on an obstacle must still not be exceeded (protection level C).

Detection range:

The detection area of the R-Loop is 8.0 x 8.0 m as standard. However, the detection area of the scanner is reduced to 6.0 m when used as a light barrier to ensure faultless detection of people and objects.

Mounting position:

For standard-compliant use of the R-Loop, it must be installed at a mounting height of approx. 0.30 - 0.70 m. It can either be mounted flush on the barrier housing or using the 30° mounting wedge KMK030 from FEIG ELECTRONIC GmbH. Using the mounting wedge, the scanner can cover a detection range of ~120°. When using an on-site holder for the R-Loop, the corresponding degrees must be adjusted in the configuration of the R-Loop via the app.



PLEASE NOTE

The R-loop must always cover the area under the barrier boom. There must be no blind spots.

Weather and environment:

The high-performance radar technology and the specific detection algorithms enable robustness against a wide range of weather conditions such as rain, snow and fog. Unlike conventional photoelectric sensors or optical sensors, the R-Loop has no problems with certain colours or paint and is not sensitive to light and weather influences.