

## R-Loop - Adjustment of the length (safety area)

Device family: Radar scanners

### Topic:

DIN 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 area must be avoided.

In addition to the standardised personal protection, property protection also plays a significant role when setting the safety zone. When setting the length of the safety area of the R-Loop, there are some special features that must be noted depending on the actual entry and exit situation. These special aspects are described in this document.

### Length of the safety area:

The length of the safety area depends on the actual entry and exit configuration, as well as the respective vehicle types that have to pass through the barrier.

#### Single-lane entrance or exit:

For a single-lane entrance or exit, we recommend a safety area of approx. 1.0 m in length, similar to the depth of a conventional induction loop. It is no longer necessary for the safety area to be located approximately  $\frac{1}{3}$  below the barrier boom and  $\frac{2}{3}$  in the direction of traffic, as is the case with conventional induction loops. Simply position the safety area in the middle under the barrier boom (see Fig. 1). If lorries, cars with trailers or similar types of vehicles also enter, a length of **at least** 1.50 m is recommended.

#### Shared lane (one barrier, two directions)

If you are using a single barrier for a shared entry and exit, we recommend setting the length of the safety area to at least 1.50 m and placing the safety area in the middle under the barrier boom - this guarantees sufficient safety both in the entry and exit direction. Here too, the length should be adjusted, depending on the types of vehicles entering and leaving. For lorry traffic in shared lane operation, a length of the safety area of around 2.0 m is recommended.

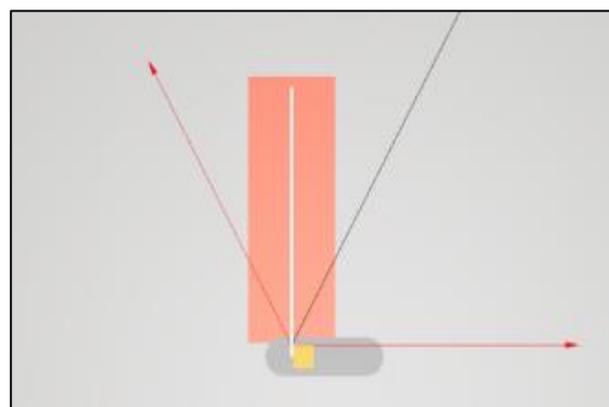


Illustration 1 - Safety area (in the middle)

#### PLEASE NOTE:

*You can easily position the safety area in the middle under the barrier boom at the touch of a button. To do this, select the following in the advanced settings:*

