

R-Loop - Adjustment of the width (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. When setting the safety area of the R-Loop, there are various parameters to consider ensuring personal protection. This document describes the special features to be observed when setting the safety area.

Width of the safety area:

The **minimum width** of the safety area of the R-Loop corresponds to the actual **barrier width**. The width of the safety area should therefore be set so that the barrier boom is located within the safety area. This ensures that personal protection is also guaranteed during critical closing operations. An example for a critical closing process is when a person only barely walks along the end of the barrier boom during the closing process. Although a hysteresis is integrated, we recommend a safety area width of +5 cm to the actual width of the barrier boom.

PLEASE NOTE:

The barrier boom length refers to the entire length of the barrier boom, including the flange on the barrier frame. The barrier width comprises the actual barrier width of the barrier from the front edge of the barrier frame to the end of the barrier boom. The safety area should therefore be ~5 cm wider than the actual barrier width of the barrier.

Please pay attention to the comments on DIN EN 12453, which are marked with a  or . These instructions will help you to set the safety area in accordance with the standards.

Illustration 1 - Safety area (width + 5 cm)

