



PRACTICAL TIP: LASER SCANNER

Influence of particles in the detection field

The laser scanner is an optical sensor for detecting the presence of persons and objects in a monitored area. The function of the laser scanner can be affected by fog, rain, snow, dripping water or other particles (dust) in the safety- and/or opening field. This can affect the operation of the barrier, i.e. the laser scanner may prevent the barrier from closing even though there is no person in the safety field or the barrier is opened or kept open due to the influence in the opening field. This is not a technical malfunction and can thus not be the subject of complaint.

Recommended measures:

- Set the immunity for the safety field from „standard“ to „high“.
- Ensure that no water flows (or drips) from a protective housing (or similar) through the protection field.

According to DIN EN 12453, suitable and sufficient protection devices must be provided for each installation. ELKA barriers in the standard version (with the controller MO 24) do not require a laser scanner for the standard-conforming protection at the main closing edge. The use of the internal force monitoring in combination with an additional device, e.g. photoelectric barriers, is sufficient.