LZR-WIDESCAN IN COLD ROOMS

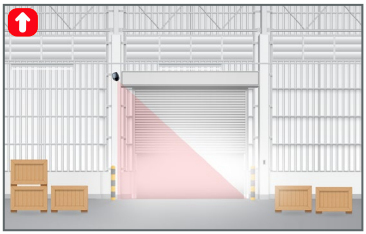
Cold rooms are challenging environments. As you will see in this document, an appropriate mounting of the Widescan is key to success. A good observation of the propagation of fog is recommended, and even though many settings are available, avoiding contact with the freezing fog is the most important.

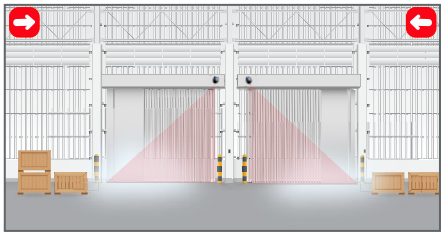
SLIDING & VERTICAL DOORS

When the door opens, warmer and colder air are mixed up creating freezing fog around the door.
Mounting position : changes depending on the type of opening (sliding or vertical) and the environment (cold side or warm side).
Mounting height : as a general rule, a low and appropriate mounting height is recommended to minimize contact with the fog.

WARM SIDE

The fog tends to cover the whole surface in front of the door starting from the floor to a specific height.

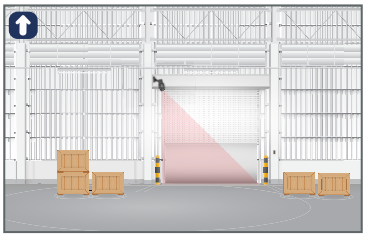


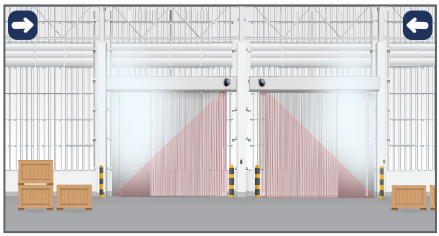


Vertical doors : best position would be left hand side (middle is an alternative).
Sliding doors : the fog is created on the opening side of the door. Place the Widescan on the opposite side to minimize the contact between the detection field and the fog.

COLD SIDE

The fog tends to raise to the top, close to and parallel to the door.





Vertical doors: it is recommended to place the Widescan on the left, way out of the door.
Sliding doors: same as for the warm side (opposite side of the opening).

An extended arm is highly recommended to tilt the Widescan with a negative angle.
In this configuration, a contact with the fog is even more minimized.

SETTINGS

Heating :
Use the LCD display to switch it on. It will keep the front face free from ice and snow. Note that the consumption will increase to a maximum of 15W.

Minimum object height & uncovered zone :
The fog tends to cover the whole surface starting from the floor in front of the door to a specific height. The fog's height can be filtered through the setting "Minimum object size" (Presence, Pull-cord and Motion) and "Uncovered zone" (Safety) via the LCD menu - Specific menu (code 1234). Recommended settings : 50 cm (accordingly).

Immunity :
Should be increased to maximum for the Safety & Presence fields (immunity 5) and Motion field (immunity 4).

Direction filter :
For Motion, UNI CTR direction filter can help avoiding unwanted detections during the opening.

Example of settings*

	WIDTH	DEPTH	IMMUNITY	FILTER	Remark
SAFETY	Entire width	40 cm	5	-	-
PRESENCE	< Safety	Field start: 40 cm Depth: 200 cm	5	vehicle	Real need for presence field?
MOTION	< Safety	Field start: 200 cm Depth Max	4	vehicle	Alternative : pull cord
Note for warm side : use OBJECT HEIGHT FILTER: 50 cm + UNCOVERED ZONE: 50 cm					

*can be adapted accordingly.

TIPS

- Do not oversize the fields.
- Pull-cord is a good alternative to Motion field in order to increase the Motion immunity by allocating the opening command to a specific place only.
- Extending the Safety field is a good alternative to replace the Presence field. Safety field is prefered to the Presence field since the immunity is stronger. If presence field is needed, try to avoid overlapping the safety and presence fields. Use the door zone OFF (B) setting to shift the presence field in depth.

	Lateral opening			Vertical opening
Door type :	To the left ⇦	To the right ⇨	In the middle ⇔	Vertical ⇧
WARM SIDE	Left	Right	Left	Left or middle
COLD SIDE	Left + extended arm	Right + extended arm	Left + extended arm	Left + extended arm