OCUTECH®
SideSight™

Considerations for Modifying SideSight Settings and Application Options

March 2025

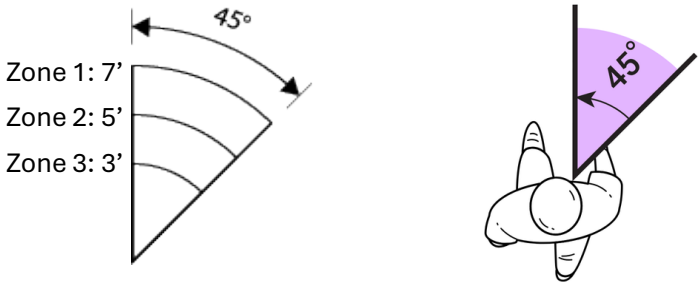
The intention of the SideSight is to warn the wearer of a potential collision risk but to not alert them to obstacles that are unlikely to pose a concern and hence risk them ignoring relevant warnings. The SideSight monitors a 45 degree field of view both horizontally and vertically.

Clinical trials have shown that obstacles beyond 8 feet or more than 45 degrees to the side pose low collision risks. As a result there is little safety benefit for alerts beyond those ranges. The goal is to warn the wearer of higher risk obstacles in ample time for them to take appropriate action to avoid a collision.

The SideSight provides three distance range zones each of which can have its own warning signals. The SideSight default settings are:

Zone 1: Notification	7 feet	1 vibration
Zone 2: Warning	5 feet	2 vibrations
Zone 3: Alert	3 feet	3 vibrations

Think of these zones as three concentric circles: Starting at 8' one alert signal will be created, at 6 feet or closer two alerts, and at 4 feet or closer three alerts. Obstacles beyond 8 feet or further than 45 degrees to the side will not create a signal. An Alert zone closer than 4 feet has been shown to not provide adequate time to avoid a potential collision. A signal will be created whether the wearer walks toward an obstacle or whether another individual or obstacle enters the sensor field of view. Setting zone 1 to be further than 8 feet has not been shown to be valuable and will produce signals that are not likely to be relevant for enhanced safety.



The SideSight software is designed to not continually create a signal from a target that does not change distance, nor will it continually create a signal when walking through a long hallway. It will only create a new signal if there has been sufficient change in the distance to warrant the new alert. This Distance Departure Rate sensitivity is controllable-- the higher the percentage the greater a distance change will be required to produce a new alarm. The default settings are 10% for zones one and two and 20% change for zone #3.

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SideSight Function Changes

A. Adjusting the alarm vibration strength: (Default is medium- 80%)

1. If not strong enough increase to 100%
2. If too strong decrease to 60%

B. If the alarm signals are too frequent, consider one or more of these options:

1. Decrease the frequency of measurements (Default 200msec = 5x/second) to 500msec = 2x/second or even less frequent) (Maximum 2000msec- once every 2 seconds)
2. Increase the Distance % departure rate in increments of 10% (Maximum is 1.5 <50%>)
3. Make certain the SideSight is not aiming at the floor. Tilt it upward so it is directed as horizontal to the floor as possible when standing.

C. If the alarm signals are not frequent enough consider:

1. Increase the frequency of measurements (Default 200msec = 5x/second) to 100msec = 10x/second). (Minimum is 100msec = 10x/second)
2. Decrease the Distance Departure Rate in increments of 10% (minimum is 1.0)
3. Make certain the SideSight is aiming at the desired field. Tilt it upward or downward so it is directed as horizontal to the floor as possible.

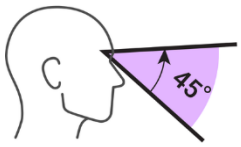
D. If the alarm is being missed by the user:

1. Increase the vibration intensity
2. Increase the number of vibrations (Pulse counts) at each alarm zone (maximum 4)

Potential Alternate Application Options

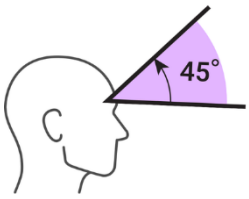
1. Concerns about obstacles on the floor:

a. Tilt the SideSight downwards on the frame mounting.
b. (The SideSight can be angled up or down up to 20° in 10° increments)
c. Decrease departure percentage to increase sensitivity to small obstacles at similar distances



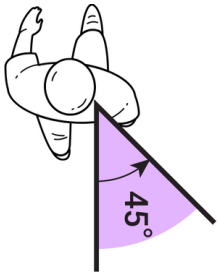
2. Concerns about obstacles overhead:

a. Tilt the SideSight upwards on the frame mounting.
b. (The SideSight can be angled up or down up to 20° in 10° increments)
c. Decrease departure percentage to increase sensitivity to small obstacles at similar distances



3. Concerns about pedestrians approaching from the rear:

a. Reverse the orientation of the SideSight so that it points to the rear. Confirm that there is no hair, headwear or clothing that can occlude the entrance port of the sensor.



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