THORN

CKIT + PIR G3

CE

[CZ]	Montážní návod	[LT]	Montavimo Instrukcijos
[DE]	Montageanleitung	[LV]	Instalacijas instrukcija
[DK]	Monteringsvejledning	[NO]	Monteringsanvisning
[EE]	Paigaldusjuhend	[PL]	Instrukcja montażu
[FI]	Asennusohje	[RU]	Инструкция по монтажу
[FR]	Notice de montage	[SE]	Installationsanvisning
[HU]	Szerelési útmutató	[UK]	Installation Instructions
[IT]	Istuzioni di montaggio		

CKIT + PIR

Product description

• Monitoring of ambient light and motion detection

• DALI-2 Sensor that requires the use of an application controller e.g. BC, BM, SceneCOM etc.

https://www.tridonic.com/com/de/download/technical/Application_controllers_MSensor_G3.pdf

>1m

>1m   >1m

✗   ✔

Presence / motion detection

$\alpha = 84°$

h

d
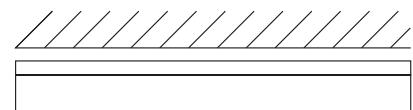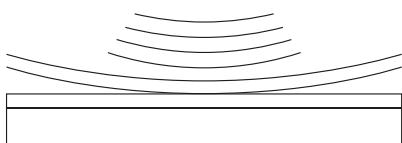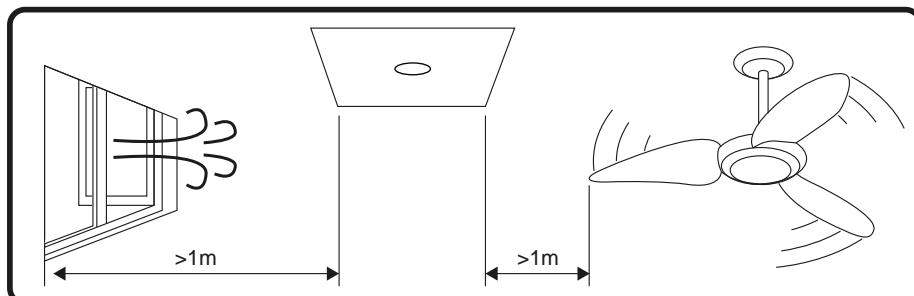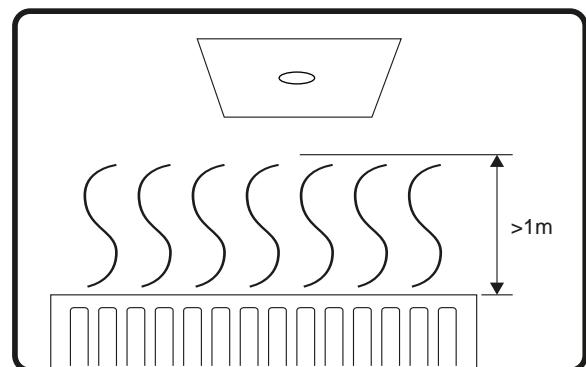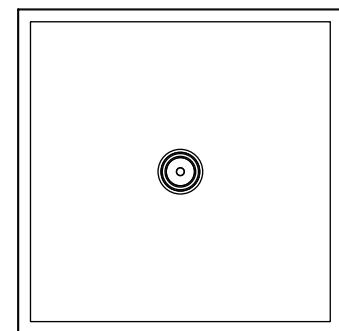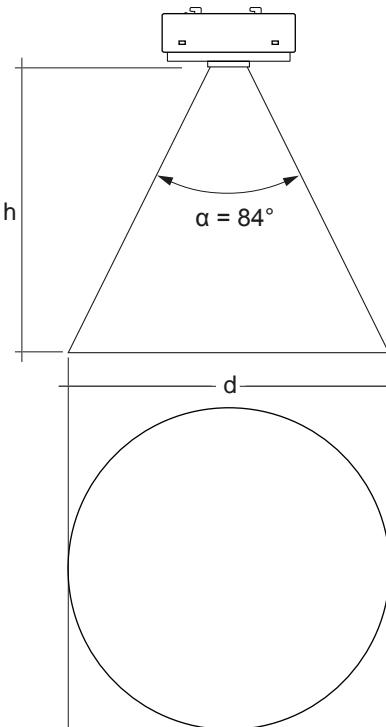
Example for light and motion detection area at height of 1.7 m:

1 m
y
0.7 m x2   x1 1.3 m
Light level recognition area
y
1 m
Presence / motion detection
3.0m

Sensor Alignment

x2
y
x2   x1
y

$\alpha_{x2} = 22°$ $\alpha_{x1} = 38°$ $\alpha_y = 30°$

h   h

22° 38°

x2   x1   y   y

y
x2   x1
y

x2
y   y
x1
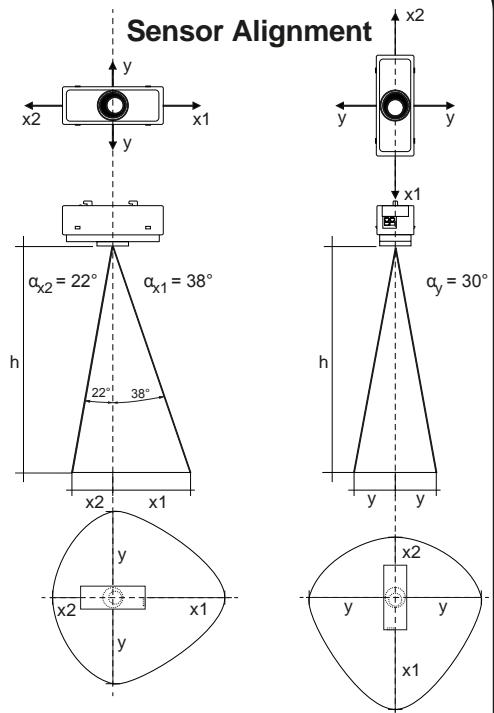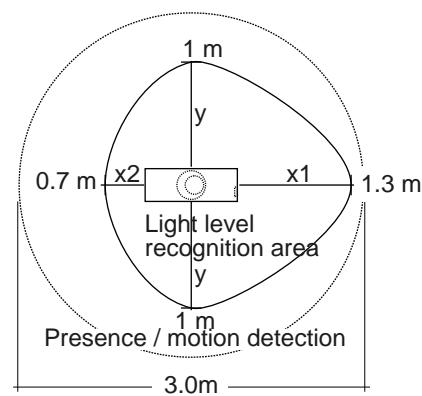
h *	x1	x2	y	d
1.7 m	1.3 m	0.7 m	1.0 m	3.0 m
2.0 m	1.6 m	0.8 m	1.2 m	3.6 m
2.3 m	1.8 m	0.9 m	1.3 m	4.1 m
2.5 m	2.0 m	1.0 m	1.4 m	4.5 m
2.7 m	2.1 m	1.1 m	1.6 m	4.9 m
3.0 m	2.3 m	1.2 m	1.7 m	5.4 m
3.5 m	2.7 m	1.4 m	2.0 m	6.3 m
4.0 m	3.1 m	1.6 m	2.3 m	7.2 m

* The recommended maximum room height for office applications is 3 m and for corridor applications for example 4 m. Up to 2 m mounting height presence is detected and over 2 m motion is detected.

Calculation of the diameter (light area):

$x1 = \tan(a_{x1}) \times h$

$x2 = \tan(a_{x2}) \times h$

$y = \tan(a_y) \times h$

Calculation of the diameter (motion area):

$d = 2 \times \tan(0{,}5 \times a) \times h$