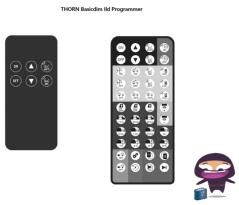


THORN Basicdim Ild Programmer Instructions

Contents

THORN

THORN Basicdim Ild Programmer

Specifications

- Product Name: basicDIM ILD
- Functionality: Provides the basis for an easy-to-use and cost-effective lighting system with motion detection
- Control: Allows individual adjustable motion detection profiles
- Control Method: Remote control for switching luminaries on and off

Motion Detection and Illuminance Adjustment:
When movement is detected, the sensor triggers an adjustable motion detection profile in the control unit. The illuminance from the lighting system is adjusted based on changes in natural ambient light.

Switch-On Delay
Set the time after which the lighting is switched off after the switch delay using the timedelay parameter.

Second Light Value
Choose whether the light is to be switched off after the switch delay or dimmed to the second light value. Adjust the light value and dwell time via the whenvacant and sec.level parameters.

Bright-Out Function
If the nominal illuminance is exceeded by more than 150% for 10 minutes, the lighting is switched off. It will switch on again when the light value falls below the set point. This function is indicated by a green LED on the sensor.

Installation Instructions

basicDIM ILD
The basic DIM ILD provides the basis for an easy-to-use and cost-effective lighting system withmotion detection.

When the sensor detects movement it triggers a individual adjustable motion detection profile in the control unit. As the amount of natural ambient light changes the illuminance from the artificial lighting system is adjusted. The connected luminaries can be switched on and off via remote control.

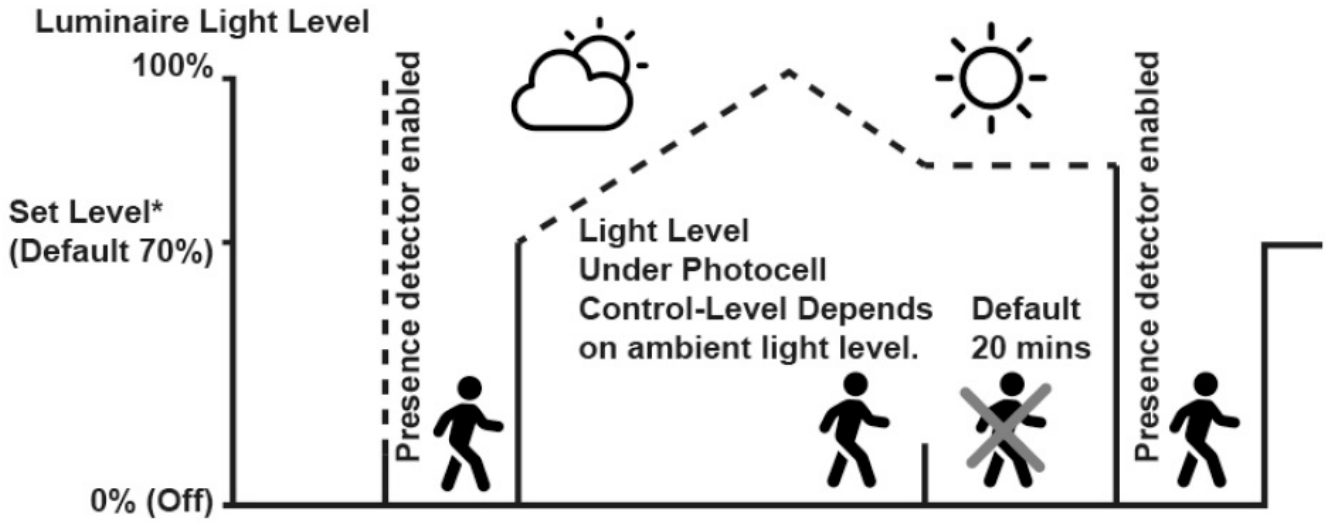
Switch-on delay
This is the time after which the lighting is switched off after the switch delay. It can be set via the ‘1ime delay” parameter

Second light value
On the basicDIM ILD you can set whether the light is to be switched off after the switch delay or dimmed to the second light value. The light value and the dwell time (how long the value can be held) can be set via the “when vacant” and “sec.level” parameters.

Bright-out
If the nominal luminance (eg 500lux) is exceeded for 10 minutes by more than 150% (e.g. 7501ux) the lighting is switched off even if the motion is detected. The lighting is switched on again when the measured light value falls below the setpoint. The bright-out function is displayed by a green status indication LED at the sensor.

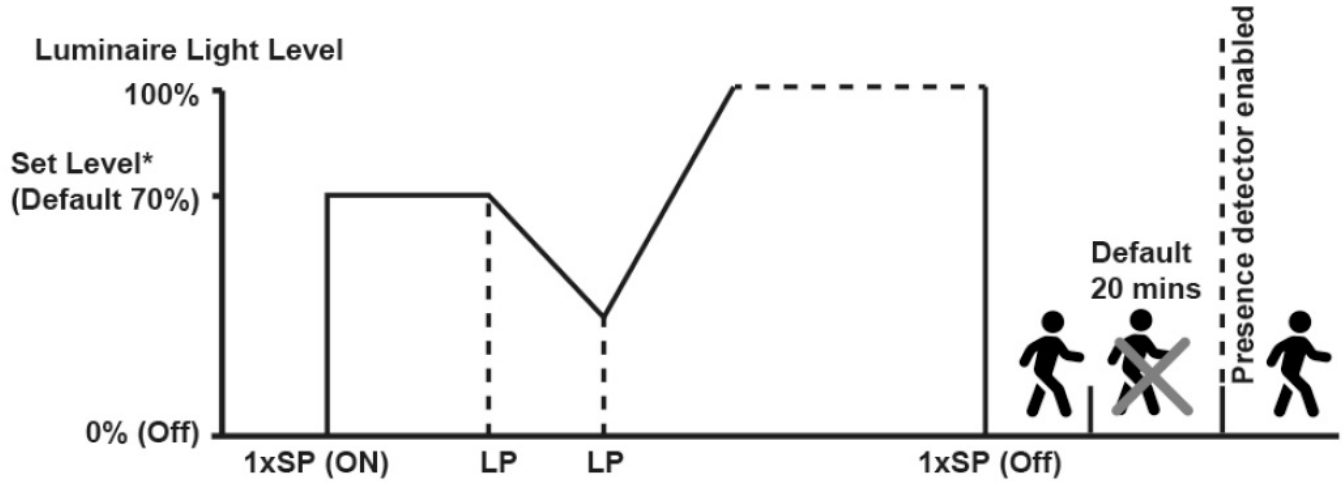
Bright-off delay
If the system is switched off manually via the remote control the motion sensor is deactivated at the end of a 10 minutes delay if motion has not been detected the motion sensor is activated again. If the sensor detects motion during the “ManualOff’ delay, the time will be reset to the start.

Auto / Presence Detection



Status	Incident
-	Normal Operation
Single Red flash *0.2s on 6s all*	Motion has been detected
Permanent Red Flashing *0.2s on 1s all*	System Error: - Second basic DIM ILD G2 Available - Stuck button time out
Long Green Flashing *1s on 6s all*	Bright-out Active
Orange Flashing *0.5s all 0.5s*	Start-up, Grouping, Test mode, Reset Active
Short Blue Flashing *0.2s*	Receive infrared command from basicDIM ILD G2 programmer or IR6

Manual Operation



Pull switch Option

Presence Detection &
Switch Operation Key
SP – Short Pull (>500-G00ms)
LP – Long Pull

- 2xSP Overrides setpoint New light level is stored

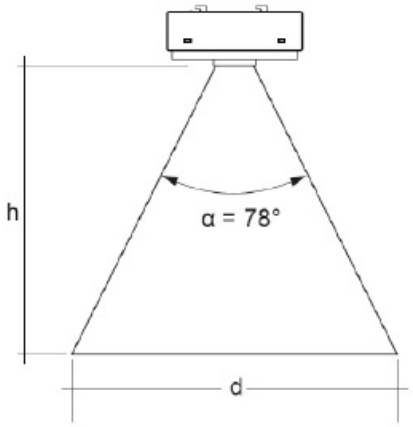
Please ensure that the detection range of the sensor lies in the lighting area of the controlled luminaries.
Please ensure that the detection ranges of the sensors do not overlap. This may have influence to the lighting control.

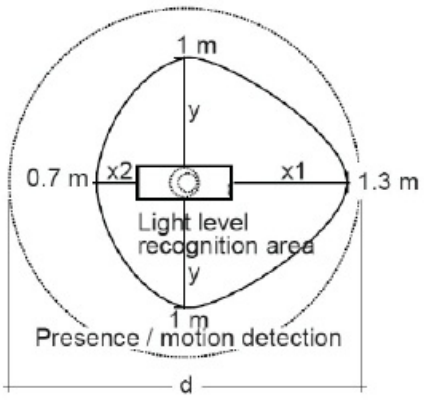
Heaters, fans, printers and copiers located in the detection zone may cause incorrect presence detection.

Parameter	Range (Factory Settings)	Description
power-up behavior	on / off (on)	If the parameter is set to "on", the luminaire switches on after a mains break. If the parameter is set to "off", the luminaire does not switch on after a mains break.
Presence lux level	Absence level / 1,000 lux (500 lux)	Value used by the light sensor to regulate the presence level of the luminaire. On account of the room conditions and the installation height, the illuminance in the workspace may, however, be three to four times higher.
presence level	1 to 100 % (100 %)	Brightness value that the ILD G2 occupies as soon as presence has been detected.
absence level	1 to 100 % (1 %)	Brightness value that the ILD G2 occupies while the switch-off delay is running.
fade-in time	0 to 15 (1)	Period of time starting as soon as presence is detected. During fade-in time, the luminous intensity fades to the presence value. 1 = 0.7 s | 2 = 1 s | 3 = 1.4 s | 4 = 2 s | 5 = 2.8 s | 6 = 4 s | 7 = 5.7 s | 8 = 8 s | 9 = 11.3 s | 10 = 16 s | 11 = 22.6 s | 12 = 32 s | 13 = 45.3 s | 14 = 64 s | 15 = 90.5 s
fade time	0 to 15 (8)	Period of time during which the luminous intensity fades from the presence value to the absence value. 1 = 0.7 s | 2 = 1 s | 3 = 1.4 s | 4 = 2 s | 5 = 2.8 s | 6 = 4 s | 7 = 5.7 s | 8 = 8 s | 9 = 11.3 s | 10 = 16 s | 11 = 22.6 s | 12 = 32 s | 13 = 45.3 s | 14 = 64 s | 15 = 90.5 s
run-on time	15 s to 60 min (20 min)	Time that begins to run from the last moment that presence was detected. After the run-on time the fade-off time is started. If another presence is detected in the room during run-on time, the run-on time is started again.
switch-off delay	off / 15 s to 60 min / never OFF (off)	Time in which the absence value is held. After expiration, the luminaire is either switched off or the absence value is held (never OFF).
fade-off time	0 to 15 (2)	Period of time starting after the run-on time. During the fade-off time, the luminous intensity fades to off. 1 = 0.7 s | 2 = 1 s | 3 = 1.4 s | 4 = 2 s| 5 = 2.8 s | 6 = 4 s | 7 = 5.7 s | 8 = 8 s | 9 = 11.3 s | 10 = 16 s | 11 = 22.6 s | 12 = 32 s | 13 = 45.3 s | 14 = 64 s | 15 = 90.5 s
constant light control	on / off (on)	Enables or disables the constant light control
bright-out	on / off (on)	If the parameter is set to "on", the luminaire switches off as soon as the light level exceeds the bright-out threshold of the set point for longer than 10 minutes. This could be the case if, for instance, the room is adequately illuminated by sunlight. If the bright-out threshold falls below 100 % of the set point, the luminaire switches back on again.
bright-out threshold	110 to 400 % (150 %)	Bright-out threshold used by the bright-out function
bright-out-off delay time	0 to 3,600 s (600 s)	Period of time that the light level must exceed the bright-out threshold to activate bright-out.
group 2 offset mode	fixed / converging (converging)	This parameter specifies how the group 2 offset value behaves if the light is dimmed up. If the parameter is set to "converging", the dimming level of group 2 will keep on rising even if group 1 has already reached a dimming level of 100 %. The brightness difference will be gradually reduced up to the point where both group 1 and group 2 reach the same dimming level of 100 % which effectively reduces the group 2 offset value to zero. This way, the offset will "converge". If the parameter is set to "fixed", the offset is "fixed". The brightness difference between group 1 and group 2 will stay at the value defined for the group 2 offset value. If the group 2 offset value was set to e.g. 30 %, the group 2 dimming level will always stay 30 % below the dimming level of group 1. If group 1 has reached a dimming level of 100 %, the dimming level of group 2 will stop rising because otherwise the offset would be reduced to less than the defined group 2 offset value.
group 2 offset value	0 to 95 % (30 %)	Adjustable brightness difference between group 2 and group 1

Presence / Motion Detection

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





h*	xl	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

Remote Control IRG

Icon	Designation	Description
	ON	Switch luminaries on light regulation activated
	OFF	Switch luminaries off
	DIM UP	Increase current dimming level
	DIM DOWN	Decrease current dimming level
	AUTO MODE	Switch luminaire on or charge automatic mode. Light regulation is started
	SET CURRENT LIGHT LEVEL	Store the brightness level currently measured by the sensor as target value for constant light control (press button>3s)

Ordering data

Type	Article number	Dimensions L x W x H	Packaging carton	Weight per pc.
REMOTECONTROL IR6	28000647	86.5 x 40.5 x 7.2 mm	500 pc(s).	0.019 kg

basicDIM ILD G2 Programmer

Product Description

- Optional infra-red programming unit for basicDIM ILD G2 Setting of predefined parameter values
- Programmable functions such as light level. time delay.
- PJR.. bright-out. power up and grouping
- IR range up to 20 m
- Link to manual Anleitung: **http://www.tridonic.com/qrILD2Prog**

Ordering data

Type	Article number	Dimensions L x W x H	Packaging carton	Weight per pc.
basicDIM ILD G2 Programmer	**28003484**	130 x 56 x 15 mm	150 pc(s).	0.04 kg

Documents / Resources

	THORN Basicdim Ild Programmer [pdf] Instructions Basicdim Ild Programmer, Basicdim Ild, Programmer

References

- User Manual