

Description

DIM MULTIeco

1113	● L 100240V ● N 50_60Hz	DIM MULTIeco	Sensor	Î.
	• L' • + 110V	dispersantian 03-13 mm ² 1- time	5m ^{10m} 15m m-0-30m	C
	₽+ (E V	7 t, (°C) 0+50 OS		

Control Unit Operating instructions

Purpose and application

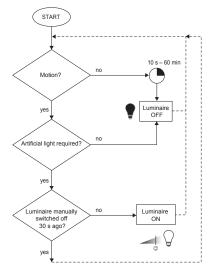
The DIM MULTleco control unit controls the lighting at the workplace and in offices according to the level of daylight and the presence of persons to increase comfort and save energy. The control unit can be installed in luminaires (e.g. floor standing luminaires) or in suspended ceilings.

Function

The control unit can be operated in two different operating modes, see also "Setting the operating mode": Brightness control

The sensors measure the brightness in the area to be regulated and keep this to an adjustable set value by introducing artificial light according to the amount of daylight available. The sensors also detect the presence of people.

When the level of daylight is sufficient or people are no longer present, the connected luminaires switch off after an adjustable delay period.



Brightness control, presence detection and automatic switch-on can be activated and deactivated using various modes. Brightness reduction

If persons are present, the luminaires are dimmed to an adjustable brightness value.

If no persons are present, the brightness drops to a fixed standby value of 50%, 30% or 10% after an adjustable delay time. Automatic switch-on and automatic switch-off during periods of prolonged absence can be activated and deactivated using various modes.

Design

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Ö III

-B

C

DIM MULTIeco

Operation

The control unit is made up of the following components:

- Adjusting screw for switch-off delay time (A)
- Sensor connection (B)
- DIP switch (C)
- Pushbutton connection (D)
- Control line connection (E)
- Load contact (F) opcional
- Power supply connection (G)

Symbols			
0	Pushbutton on the luminaire	Q	Luminaire on
O→I	Switch on	•	Luminaire off
I→ O	Switch off	₹Ŏ	Luminaire flashes
⇔	Short press (< 0.5 s)		Brightness with automat. control
€	Long press (> 0.5 s)	\checkmark	Confirmation of the setting
⊲≫	Double-click		Manual dimming
Ŕ	Presence detection (detection of small movements)		

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Operation (cont.)

T1		
Ŕ		DIP
х	х	1 2 3 4 5 ON
Х*	Х*	
Х	_	
Х*	_	
-	х	
-	Х*	
-	_	
_**	_	

T2		
Ŕ	2x 💽: 🕊	DIP
Х	х	1 2 3 4 5 ON
Х*	х	
Х	_	
Х*	_	
-	_	
-	X**	

I→ O

\$

 $O \rightarrow I$

 \Rightarrow

¢≫¶

 $\checkmark \overset{\text{T}}{\bigvee}_{2x} \overset{\text{I}}{\longrightarrow}$

•3)

Adjusting the operating mode

Via DIP switch 1 and 2.

"Brightness control" operating mode

DIP switch 1 = ON DIP switch 2 = ON

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The following functions are switched on and off using DIP switches 3, 4 and 5, see Table T1:



Brightness control

The device is delivered with both functions switched on.

* Does not switch on via sensor. Manual switch-on required.

** Automatic switch-off after expiry of the switch-off delay time (motion independent).

DIP switch 1 = ON DIP switch 2 = OFF	Standby: 50%
DIP switch 1 = OFF DIP switch 2 = ON	Standby: 30%
DIP switch 1 = OFF DIP switch 2 = OFF	Standby: 10%

"Brightness reduction" operating mode

The following functions are switched on and off using DIP switches 3, 4 and 5, see Table T2:

Λ	Presence detection
2x 🕒: 🅊	Automatic switch off of the luminair

Automatic switch-off of the luminaires after expiry of twice the switch-off delay time

* Does not switch on via sensor. Manual switch-on required.
** Motion independent

Manually switching luminaire on and off Via short press. Note: In the "Brightness reduction" operating mode, manual switch-off of the luminaires is not possible. Changing the brightness manually Note: Function is locked if necessary, see "Locking and releasing pushbutton functions".

Via long press.

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Each repeated long key button press causes a toggle between increased brightness and decreased brightness.

The brightness control is deactivated until the next time the luminaire is switched on.

Adjusting the set value/brightness value

Note: Function is locked if necessary, see "Locking and releasing pushbutton functions".

In the "Brightness control" operating mode the setting corresponds to the set value for the automatic brightness control (tip: make the setting when there is little daylight).

In the "Brightness reduction" operating mode, the setting corresponds to the fixed brightness value to which it is dimmed when movement is detected.

Set the desired brightness.

② Double-click.

(3) Confirmation: Luminaire flashes.

Operation (cont.)

0→1			
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1		→3	

Q_{min} + 15 s □ ↓ ↓ ↓ ↓ ↓

> 30 s

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•2

•2

Deactivating presence detection via pushbutton

Note: Function is locked if necessary, see "Locking and releasing pushbutton functions".

When presence detection is active, the green LED on the sensor lights up briefly each time motion is detected.

Deactivate presence detection:

Switch on if necessary.
Double-click.

Double-click

③ Confirmation: Luminaire switches off. Green LED on the sensor lights continuously.

The presence detection is activated again the next time the luminaire is switched on by pushbutton if presence detection is switched on and active through selection of the corresponding operating mode.

Locking and releasing pushbutton functions

Lock preset reference and deactivation of the presence detection

 Set the minimum brightness and press the pushbutton for another 15 seconds.

② Confirmation: Luminaire flashes.

Lock the preset reference and manual brightness change

① Set the maximum brightness and press the pushbutton for another 15 seconds.

② Confirmation: Luminaire flashes.

Re-release all pushbutton functions

① Press the pushbutton for 30 seconds.

② Confirmation: Luminaire flashes.

Adjusting the switch-off delay time

Note: When the presence detection is activated, each time a movement is detected, the countdown of the time restarts. Turn the adjusting screw to the required setting:

• To the left: shorter (min. 10 s)

• To the right: longer (max. 60 min)

Behaviour after a power failure

After a power failure, the luminaire remains switched off until the next time presence is detected or a pushbutton is operated. If the "Automatic switch-off" function is switched on in the "Brightness reduction" operating mode, the luminaire switches on with the standby value after a power failure.

Troubleshooting

If you cannot remedy the fault, please contact the Customer Service department of the luminaire manufacturer Luminaire does not function

No mains voltage available.

 \rightarrow Check whether the green LED is lit. Use a voltage tester to test if mains voltage is present.

Illuminant is faulty. \rightarrow Replace illuminant.

The luminaire was switched off via the pushbutton. → Switch on luminaire.

The sensor is exposed to excessive amounts of ambient light.

→ Cover the sensor and observe the behaviour of the luminaire. A set value for the brightness cannot be specified

Preset reference is locked.

→ Unlock the set value specification.

Brightness control is switched off in the selected operating mode.

→ Select a suitable operating mode.

Brightness is not adjusted to the selected set value Pushbutton was not pressed within 30 seconds after setting the set value (presence detection is activated) → Double-click within 30 seconds after carrying out manual

dimming.

Brightness control was not started until 5 seconds after the set value was adjusted

→ Wait until the delay time expires.

Brightness control was deactivated by a manual operation. \rightarrow Switch luminaire off and on again.

Brightness control is switched off in the selected operating mode.

→ Select a suitable operating mode.

Presence detection is not functional

The luminaire was switched off by pushbutton less than 30 seconds ago.

→ Wait until the delay time expires.

The workplace is not fully within the detection area of the

sensor. → Move your hand in front of one of the sensors. If the LED in the sensor does not flash, realign the sensor to the workplace.

Presence detection is deactivated → Activate presence detection by briefly pressing the push-

button.

Presence detection is switched off in the selected operating mode. → Select a suitable operating mode.

No artificial light is necessary. \rightarrow See "Function".

Presence detection cannot be deactivated

Brightness was manually changed within the last 30 seconds.

→ Wait until the delay time expires. Presence detection is switched off in the selected operating

mode. → Select a suitable operating mode.

Luminaire does not react as expected to the press of a button

Pushbutton was pressed too long or too short. \rightarrow See "Manually changing brightness".

Manual brightness change is locked. \rightarrow See "Locking and releasing pushbutton functions".

Appendix

Accessories

Designation/Description	Product number
LS/PD MULTI 3 Light and motion sensor	4050300802138
LS/PD MULTI 3 B Light and motion sensor, movable	4050300803081
LS/PD MULTI 3 FL Light and motion sensor, flat	4008321047342
LS/PD MULTI3 CI Light and motion sensor for ceiling installation	4008321916648
Y-CONNECTOR Branching element for the connection of additional sensors	4050300803135
Y-CONNECTOR Screw Branching element with screw terminal for connection of additional sensors and for connection of MULTleco systems with central presence detection	4008321916686
ECO CI KIT Cable strain relief for the independent installation of the MULTIeco control unit (e.g. ceiling installation)	4008321392091
SENSOR KIT Adapter for the surface mounting of the LS/PD CI sensor	4008321916662

The CE requirements to EN 60928 are fulfilled. The EMC requirements to EN 61547 are fulfilled Conformity with the relevant EU directives is

confirmed by the CE symbol.