

THE BEST LIGHTING FOR WORKPLACES FOR ANY BUDGET. **ESY!**

ESYLUX LIGHT CONTROL ELC

Simple control technology
for intelligent light



ESYLUX LIGHT CONTROL

INTELLIGENT DEMAND-DRIVEN TECHNOLOGY FROM ESYLUX

There are many good reasons for energy-efficient modernisations of offices, educational institutions and health facilities – yet often it is expensive, time-consuming and planning-intensive. That's where ESYLUX has the answers: in form of intelligent, cost-effective, easy-to-operate automation and lighting solutions which, in addition to energy efficiency, improve quality of life to a high degree.

With the ESYLUX Light Control ELC, ESYLUX has developed innovative control technology that radically simplifies intelligent illumination and ventilation of rooms while at the same time offering the best possible light quality, even for those on a limited budget. The ELC light systems comprising ceiling lights, sensor systems and control units can be installed via plug-and-play and used immediately without any programming effort; they also enable rapid modernisation, even during ongoing operation. The integrated SymbiLogic technology from ESYLUX ensures energy-efficient human centric lighting, while demand-driven ventilation ensures an optimal indoor climate – whatever the workplace.

ESYLUX Light Control has lower overall costs than any of its competitors, increases the value of a property and is proof that quality can be affordable when it is based on intelligent concepts. See for yourself how the simple-to-operate room solutions are the most energy-efficient, while offering the best value for money and the best light quality. Discover ESYLUX Light Control for yourself.

↑ INCREASES
QUALITY OF LIFE
ROI OF THE PROPERTY
ENERGY EFFICIENCY
FLEXIBILITY OF USE

↓ REDUCES
INVESTMENT COSTS
OPERATING COSTS
INSTALLATION EFFORT
MAINTENANCE WORK

MAKES INTELLIGENT SIMPLE

TOPICS

6

**QUALITY OF LIFE INCLUSIVE:
BIOLOGICALLY EFFECTIVE LIGHT
IN NO TIME AT ALL**

ESYLUX Light Control with SymbiLogic for energy-efficient human centric lighting – ready for use immediately, even during ongoing operation.

8

**TOP PERFORMANCE:
THE BEST WORKPLACE LIGHT FOR ANY BUDGET**

ESYLUX Light Control offers intelligent light, the best value for money and the highest possible energy efficiency.

10

**IN A NEW DIMENSION:
INSTALLATION WITHOUT PROGRAMMING**

ESYLUX Light Control enables simple installation as a preconfigured standard set or a freely configurable solution for any room dimension.

16

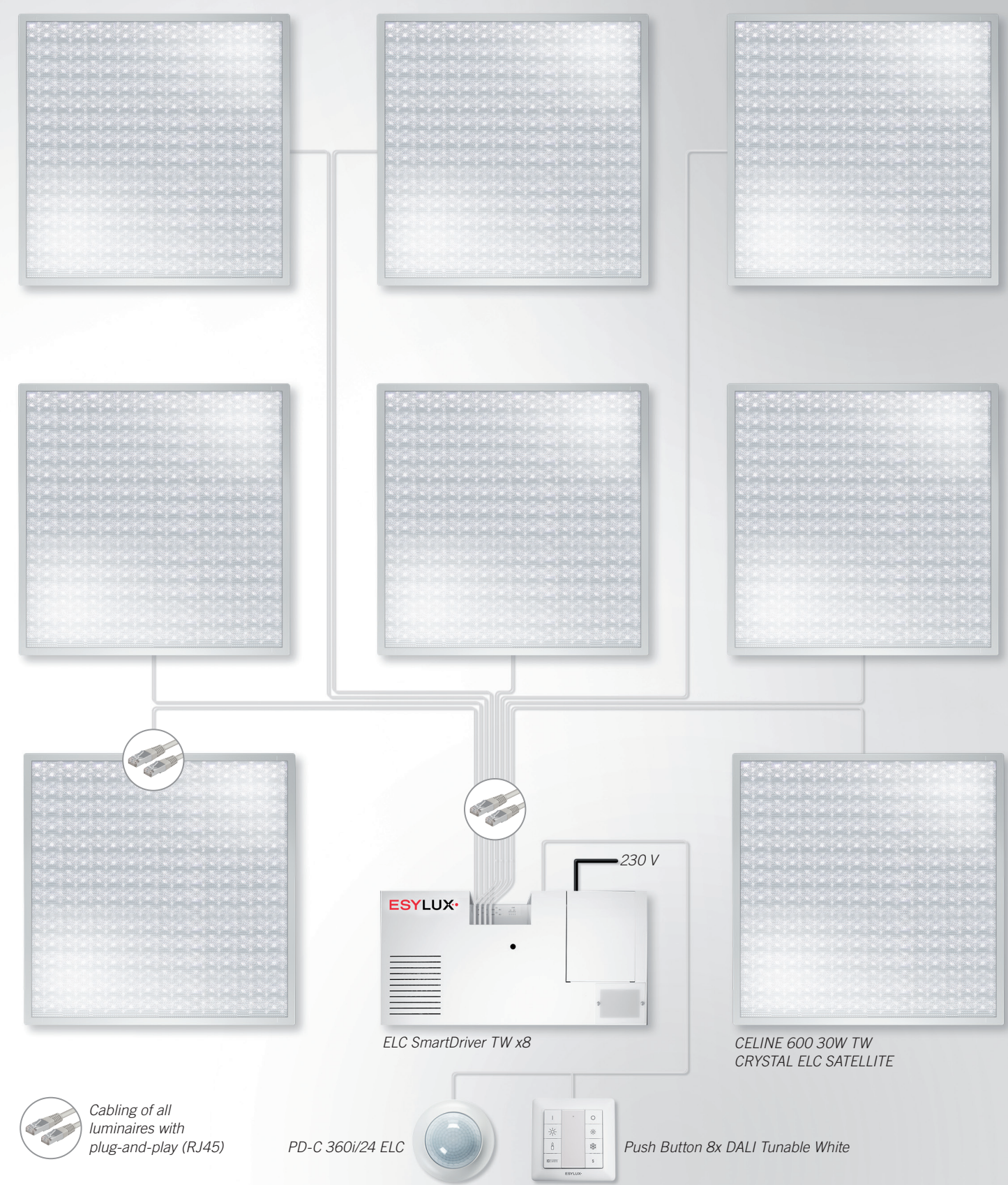
**FLAWLESS NETWORKING:
GROUPINGS IN NO TIME**

ESYLUX Light Control makes groupings, regroupings and the exchange of components easy thanks to simple switching.

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**INDIVIDUAL CONTROL:
FROM MANUAL TO DIGITAL**

ESYLUX Light Control offers users convenient operating options – via button or ESY app, or simply using the ESY-Pen.



QUALITY OF LIFE

INCLUSIVE

SYMBILOGIC FOR ENERGY-EFFICIENT HUMAN CENTRIC LIGHTING

An optimal indoor lighting system is based on the dynamic progression of natural daylight, on the interaction between the sun and the sky. Brightness and light colour change over the course of the day, and the illuminance always considerably exceeds the standard required minimum. This additional light quality has far-reaching consequences: It increases vitality and the ability to concentrate, while also helping people to make fewer mistakes. It simply makes people feel better and more productive.

The SybiLogic technology integrated into ELC solutions allows for a perfect combination of the best light for people and the advantages of an intelligent control system. Thanks to the dynamic brightness and colour gradients, the technology generates a biologically effective light that substantially improves quality of life. In this way, SybiLogic also helps people to overcome difficult phases in their lives while promoting well-being over the entire course of the day. Embedded into the ELC system, SybiLogic guarantees the highest possible energy efficiency: Switching of the lighting does not only depend on presence and the available daylight. Thanks to its adaptive HCL light control, SybiLogic, with its dynamic brightness gradients, automatically ensures energy-efficient use of daylight, and in doing so applies a proven technological principle to the very latest concept for inside lighting.

Whether the ELC solution is preconfigured or freely collated, SybiLogic can be used immediately after just a few installation steps. For example, you can modernise rooms at any time with biologically effective lighting even during ongoing operation!

FLICKER-FREE RELAXED VISION

To ensure that you get the full invigorating effect of biologically effective lighting, we set high standards when it comes to light quality and a low flicker factor. This is because LEDs respond much more quickly and directly to the natural fluctuations in alternating current than the classic incandescent lamp. They threaten to flicker, which can cause people to feel tired or experience dizziness. Our ELC lighting solutions, on the other hand, offer only flicker-free light for an all-round healthy working environment.

SYMBILOGIC IS THE ESYLUX TECHNOLOGY
FOR ENERGY-EFFICIENT HUMAN CENTRIC LIGHTING



INCREASES
MOTIVATION
PRODUCTIVITY
EMPLOYEE LOYALTY

REDUCES
ERRORS
ABSENCES
WORKPLACE ACCIDENTS

Source: Report, Quantified benefits of Human Centric Lighting
by LightingEurope & ZVEI, April 2015

BEST PRICE, BEST PERFORMANCE



Total price with SymbiLogic (light colour: Tunable White)
incl. luminaires or system lights, presence detectors and control system
excl. VAT and installation costs

FROM 50 €/m²



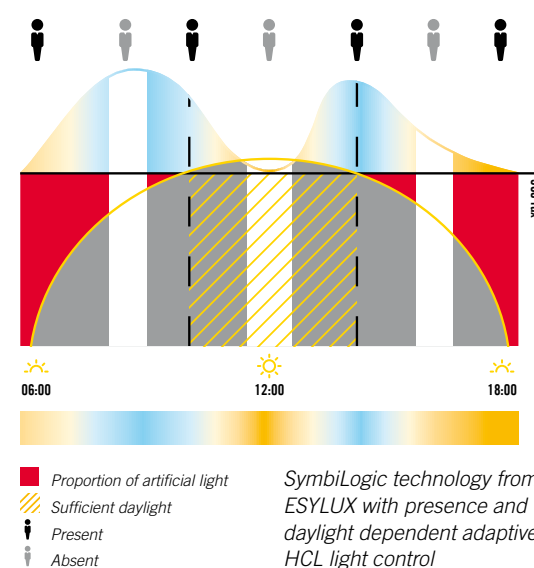
Total price, fixed light colour (3000 K + 4000 K)
incl. luminaires or system lights, presence detectors and control system
excl. VAT and installation costs

FROM 35 €/m²

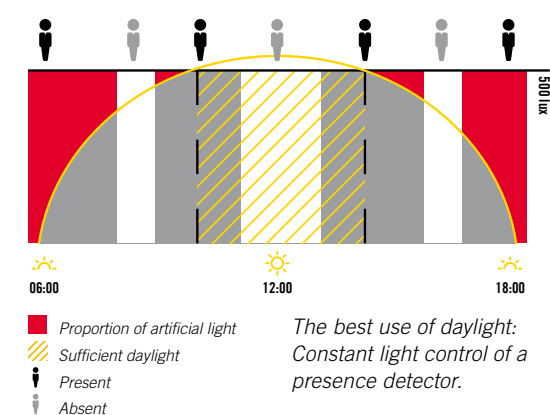
ESYLUX Light Control brings the best workplace light to rooms in office buildings, educational institutions and health facilities. Cost-effectiveness, however, is just as important as light quality. The best light solution must also meet the budget and project plans if it is to be a sustainable option. ESYLUX Light Control combines, in a unique way, better quality of life with particularly low investment costs and a high degree of cost efficiency over the long term.



BEST LIGHT AT THE BEST VALUE FOR MONEY



PRESENCE AND DAYLIGHT DEPENDENT CONSTANT LIGHT CONTROL



We offer ELC system solutions in two versions for different requirements – in each case at an unrivalled low price per square metre. The version with SymbiLogic for efficient human centric lighting is recommended for work areas such as open-plan offices or patient rooms, where there are constantly people present. The version using constant light colour is especially suitable for areas such as corridors, entrance areas and stairwells.

Both options use a system that is fully ready for use from a single source – including lights (CELINE series, NOVA series), presence detectors (COMPACT series) and an intelligent control system (ELC SmartDriver).

PLUG-AND-PLAY IN A NEW DIMENSION

THE SMARTDRIVER FOR ESYLUX LIGHT CONTROL ELC:

1. SymbiLogic (Tunable White)
ELC SmartDriver x4 | x6 | x8
2. Fixed light colour (3000 K/4000 K)
ELC SmartDriver x4 | x8 | x12 | x16

Just plug in and it's ready! The SmartDriver of the ESYLUX Light Control system contains the power supply for all system lights, enabling them to be connected to it using simple plug-and-play – likewise the sensor system. The result: Considerable time savings for any installation.

Simple plug connections enable ELC system solutions to be set up without any time-consuming programming – or the assistance of an ESYLUX specialist – even in complex room situations. So you are free to choose from preconfigured, ready-to-use set solutions for your office, classroom or patient room. Alternatively, you can put together your own solution in just seven simple steps.

PRECONFIGURED, STANDARDISED SETS

Quadro-Sets:
for standard offices
up to approx. 20 m²

Classroom-Sets:
for standard classrooms
up to approx. 60 m²

Patient Room-Sets:
for twin-bed patient rooms
up to approx. 30 m²

FREE CONFIGURATION IN 7 SIMPLE STEPS

1. Light design for main lighting
2. Light type
3. Number of lights
4. Controls
5. Sensor
6. Cable
7. Accessories

PRECONFIGURED ROOM SOLUTIONS



Example of a set solution* Offices with SymbiLogic:

CELINE 600 120W TW CRYSTAL ELC QUADRO SET		EQ10122583
1x	ELC SmartDriver TW x4	EC10430572
4x	CELINE 600 30W TW CRYSTAL ELC SATELLITE	EQ10122101
1x	PD-C 360i/8 ELC	EP10427602

Example of a set solution* Classrooms with SymbiLogic:

CELINE 625 360W TW MILKY ELC Classroom-Set		EQ10129964
12x	CELINE 625 30W TW MILKY ELC SATELLITE	EQ10122057
1x	ELC SmartDriver TW x4	EC10430572
1x	ELC SmartDriver TW x8	EC10431036
2x	BOARDLIGHT 1200 30W 4000K ON/OFF	E010849817
2x	BOARDLIGHT Wallarm WH	E010849831
1x	PD-C 360i/8 ELC	EP10427602
1x	PD-C 360i/24 ELC	EP10427619
1x	SW DALI Semi Automation**	EP10427480
1x	Push Button 8x DALI CLASSROOM	EC10431241

Example of a set solution* Patient room with SymbiLogic:

CELINE 625 IP54 CRI90 240W TW MILKY ELC Patient Room-Set		EQ10129919
8x	CELINE 625 IP54 CRI90 30W TW MILKY ELC SATELLITE	EQ10129933
2x	ELC SmartDriver TW x4	EC10430572
1x	PD-C 360i/8 ELC	EP10427602
1x	Push Button 8x DALI PATIENT ROOM	EC10431265
1x	ELSA 225 18W 3000K MILKY DALI	E010300240

* With all set solutions, the plug-and-play system cabling is included
** An additional 230 V button is required for semi-automatic operation of the board light

FREELY CONFIGURE

IN 7 STEPS

In addition to the preconfigured, ready-to-use sets for offices, classrooms and patient rooms, we also offer the option of compiling individual ELC solutions with system components and supplementary devices – for every application, every room dimension and every budget.

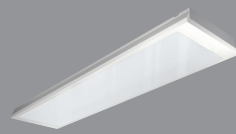
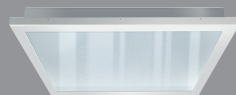
See an overview for yourself at www.esylux.com

1.

Select light designed for main lighting

CELINE ceiling light series

- 600x600
- 625x625
- 1200x300
- 1250x312.5



NOVA ceiling light series

- 600x600
- 625x625



2.

Select light type

- Colour temperature
- Diffusor type
- Sensor system integrated/separate

3.

Select number of lights

As a rule of thumb:
One light per 5 m² for an illumination level of approx. 500 lx.

As a matter of principle, we recommend professional light planning with Relux/DIALux

4.

Select control system

With SymbiLogic:

- ELC SmartDriver TW x4
- ELC SmartDriver TW x6
- ELC SmartDriver TW x8

With fixed light colour:

- ELC SmartDriver x4
- ELC SmartDriver x8
- ELC SmartDriver x12
- ELC SmartDriver x16

Option: Bluetooth

Option: KNX



Min. one control unit per group

5.

Select sensor

Range:
8 or 24 m
(360° detection range can be reduced if required)



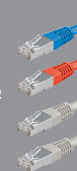
Min. one sensor per group

6.

Select cables

Colours:

- Blue and red for Tunable White
- White for fixed light colour



Lengths:

- 5 m
- 10 m

Quantity:

- 4
- 6
- 8

7.

Select accessories

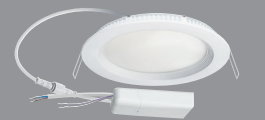
DALI-Switch



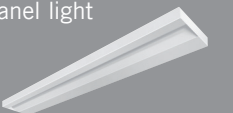
DALI push button



Additional lighting:
ELSA downlights



BOARDLIGHT panel light



FLAWLESS NETWORKING

SIMPLE GROUPING VIA PLUG-AND-PLAY

Free configuration creates maximum flexibility because the units comprising ELC SmartDriver, lights and sensor system can be scaled for any dimension. Depending on the design, you have access to between two and four separate light channels, while central manual overriding is possible at any time at the push of a button. Where light needs to be controlled and daylight used for specific purposes in different room zones, the groups formed for the purpose can simply be connected with one another via the ELC bus. Plug-and-play is also a real benefit even when scaling: thanks to the plug connections it becomes intuitively clear which device belongs to which slot – with no programming at all required. The result is simple grouping with minimal potential for error!

WITH OPTIONAL INTEGRATED KNX MODULE

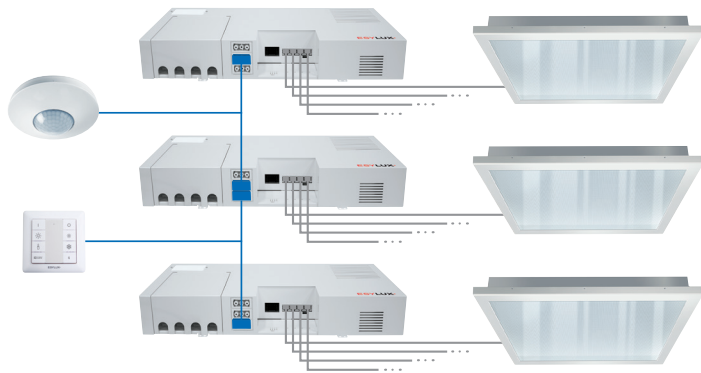
With ELC system solutions, integrating energy-efficient human centric lighting into KNX systems is child's play. We offer versions of the ELC SmartDriver with inbuilt KNX module. These versions can be seamlessly incorporated into KNX building automation without the need for a separate gateway, so they are then ready to use immediately. Addressing the controller for central control and reading the system and making individual adjustments can be performed later.

SmartDriver portfolio

		Max. lights per ELC SmartDriver	Max. ELC SmartDriver per group	Max. lights per group	Max. groups per ELC bus	Max. lights (total)
SymbiLogic (2700–6500 K TW)	ELC SmartDriver TW x4	4	10	40	10	400
	ELC SmartDriver TW x6	6	6	36	10	360
	ELC SmartDriver TW x8	8	5	40	10	400
Fixed light colour (3000 K / 4000 K)	ELC SmartDriver x4	4	20	80	10	800
	ELC SmartDriver x8	8	10	80	10	800
	ELC SmartDriver x12	12	6	72	10	720
	ELC SmartDriver x16	16	5	80	10	800

FORMATION OF AN ELC GROUP (INTRA GROUPING)

INTRA grouping enables simple scaling, for example for large office floors or open-plan offices that require a central light control system. Benefit: simple scaling of large solutions or areas

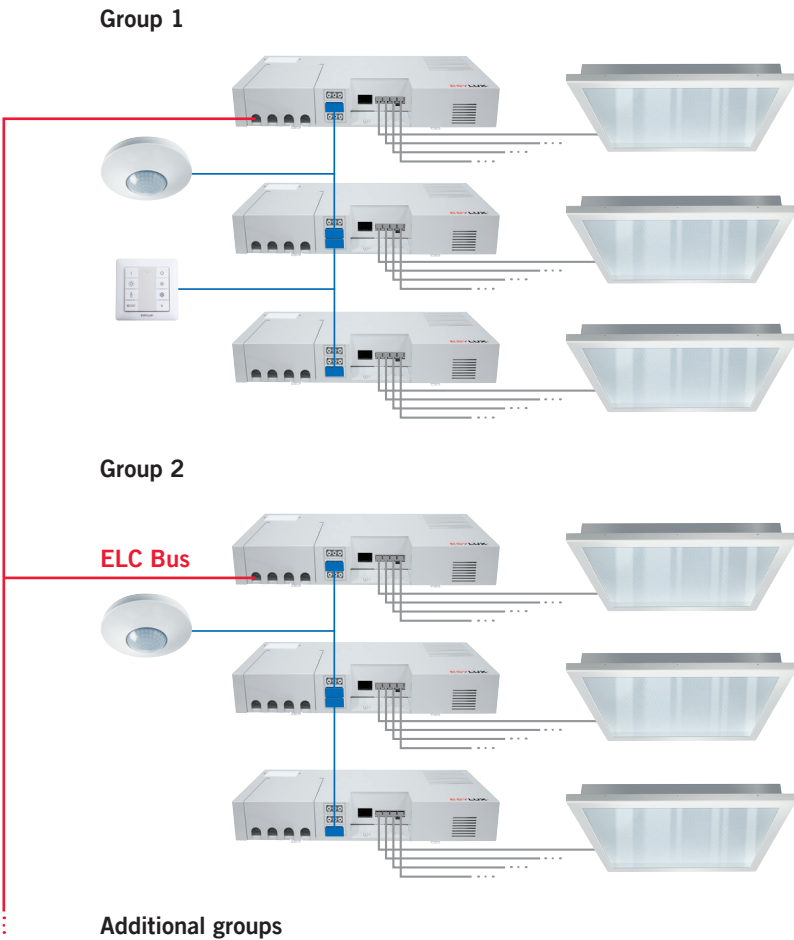


NETWORKING OF MULTIPLE ELC GROUPS (INTER GROUPING)

INTER grouping enables groups to be formed for individual lighting control in individual room zones. Simple. Error-free. No programming required. Thanks to plug-and-play.

The master is initialised automatically when the system is first operated.

Intelligent networking of multiple ELC groups enables a demand-driven orientation light with swarm function. For greater comfort and safety.



Simple formation of groups for room zones networked intelligently with one another. As a result, these room zones can be controlled and regulated individually. The different room zones can still be controlled across groups, however, by using our DALI push button facility.

INDIVIDUAL CONTROL

CONVENIENT MANUAL OR DIGITAL OPERATING OPTIONS

The ESYLUX DALI push button for manual touch control.



Dim, switch or change the colour of the light with the all-rounder ESY-Pen.



ESYLUX Light Control can be operated by the user in a number of different ways: In the basic version, manual switching, an override for brightness and light colour and the deselection of individual scenes are possible with a simple 230 V push button. Push buttons that are already installed can therefore be used without any problems, whilst alternatively the DALI push button from ESYLUX is available: With its easy-to-understand symbols, overall clarity and simplicity of the design, it can easily be integrated into different environments.

In addition to its many operating and light measurement functions, the ESY-Pen also offers simple push-button switching or dimming of the lights, changing of light colour and selecting of stored scenes.



Bluetooth control for Android and iOS

The ESY app enables simple control of the system via Bluetooth. The basic configuration can then also be carried out and individual lights/channels can be controlled via the app. This allows the user convenient, simple operation directly from a smartphone.

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