

siteco




SITECO Connect

Possible applications in the production hall

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Production hall

Possible applications			
Application	Production hall		
Control	Local control SITECO Connect	central control SITECO Connect 22	central control SITECO Connect 11
	Example 3.3	Example 3.2	Example 3.1
Luminaire	LICROSS ® trunking 	LICROSS ® trunking 	LICROSS ® trunking 
Basic energy-saving function			
Daylight control with averaging	•	•	•
Manual control	•	•	•
Motion capture		•	•
Additional functions			
Flexible grouping		•	•
Time functions		•	•
Transit lighting		•	•
Predictive Maintenance			•
Energy monitoring			optional
Services			optional
Building or site networking			optional
Possible applications			
Link to	Page 3	Page 7	Page 11



Example 3.3
Production hall
Licross Trunking
Local control

3.3 Production hall



Efficiency through integrated energy-saving basic functions.



One controller can control up to 32 DALI ECGs in **DALI broadcast addressing**. Cascading with repeater possible for larger areas.



Quick commissioning of the daylight-dependent lighting control via APP-.

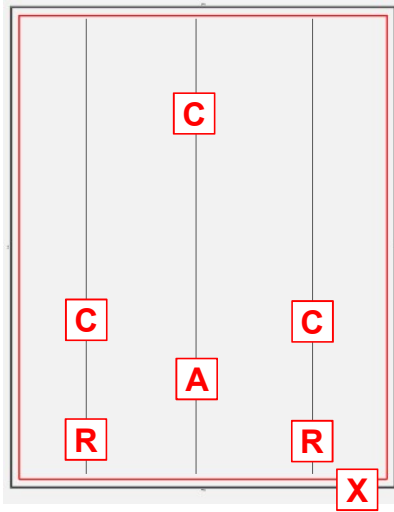





Operation (ON/OFF, manual override) of the lighting system by the user using pushbuttons.




3.3 Production hall

Example production (LPH = max. 6m, length = 30m, width = 24m)

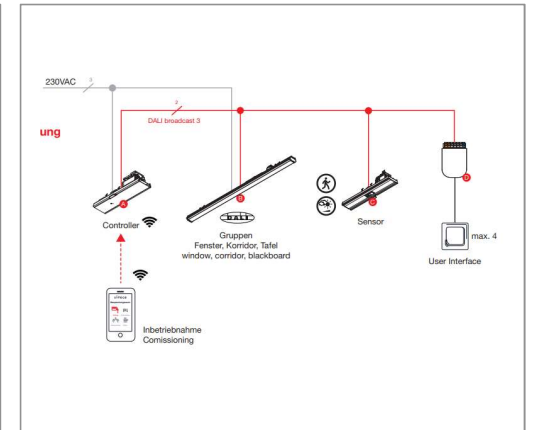


Which products are needed?		
Designation	Function	Order no.
Licross® light DALI & mounting rail 14-pin		specific
Licross® Controller (white/ silver /black)	Master A 	56TL1CBM0B 56TL3CBM0B 56TL6CBM0B
Licross® Sensor D1	Slave C 	56TL1MDS1A
Repeater (optional)	Repeater R	56TL1CRM0B 5LZ904002
DALI2 pushbutton coupler	Pushbutton X 	5LZ904731
DALI Eco BT APP	Commissioning	-

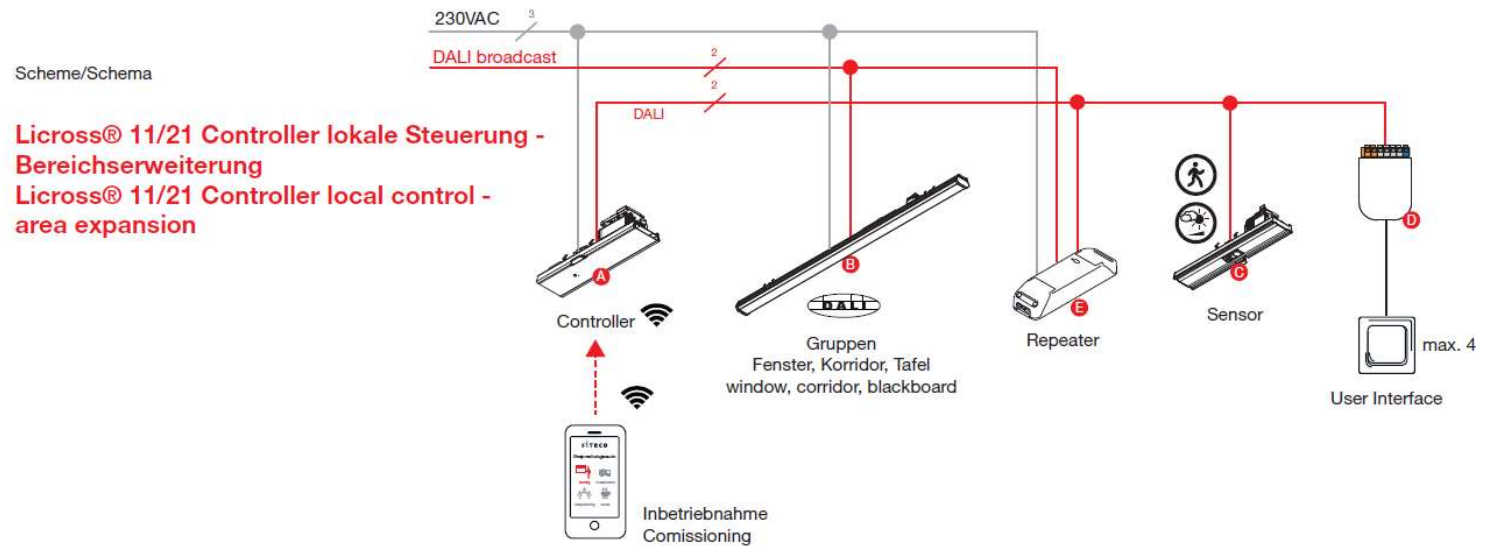
Maximum system sizes				
# DALI ECG (C)	max. 32	max. 32	max. 32	max. 32
# Master (A)	1x A	1x A	1x A	1x A
# Slave (B)	0x C	1x C	2x C	3x C
Pushbutton interface (D)	1x D	1x D	1x D	1x D



Light sensor D1	
Mounting height	Distance window amin
4m	1,5m
6m	2,2m
8m	3,0m
10m	3,6m
12m	4,4m



3.3 Production hall



Systemgröße / System size				
Master A	1			
Slave C	0	1	2	3
DALI-EVG D + Repeater E	≤ 64	≤ 64	≤ 64	≤ 64
Tasterschnittstelle D	≤ 1	≤ 1	≤ 1	≤ 1

* DALI: maximale Gesamtleitungslänge 100m bei Verlegung z. B. NYM5G1,5 mm²
** Taster bauseitig: maximale Leitungslänge 2m zwischen Taster und Tasterschnittstelle

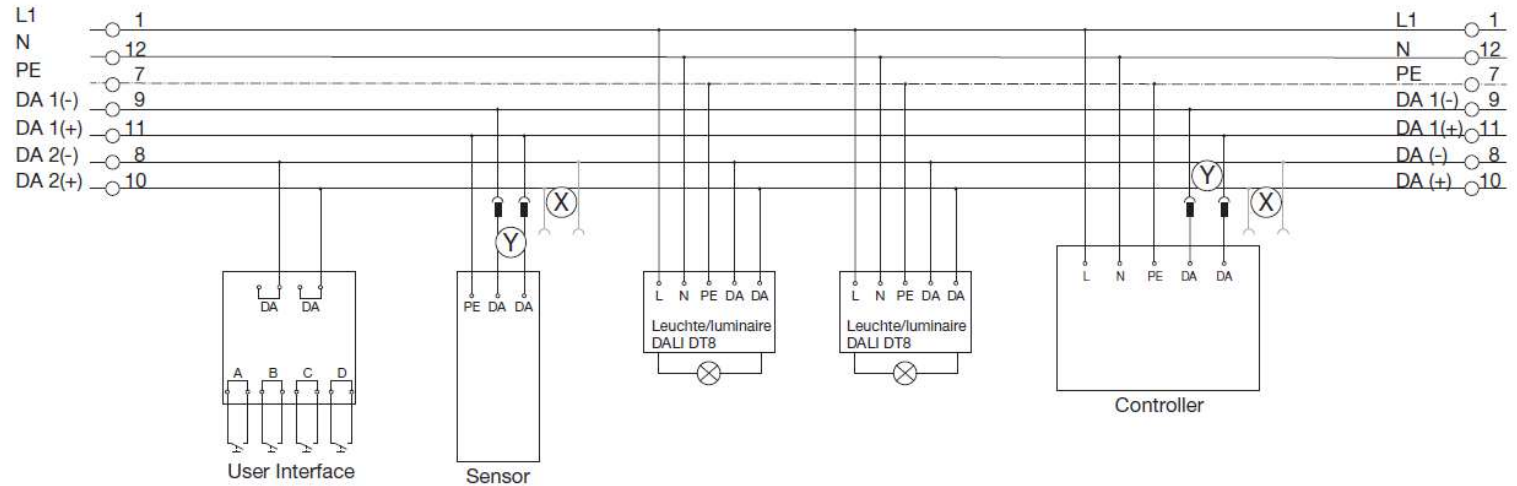
Die obige Darstellung zeigt nur einen exemplarischen Schaltplan eines Lichtmanagementsystems. Für einen konkreten Anwendungsfall ist zwingend eine individuelle Planung (insbesondere Leitungs- und Stromkreisdimensionierungen, Leitungsarten, Brandschottungen, Trassenführungen, etc.) durch qualifiziertes Personal erforderlich. Die Siteco GmbH übernimmt keinerlei Haftung für die Richtigkeit der obigen Darstellung

The illustration above only shows an exemplary circuit diagram of a light management system. For a specific application, individual planning (in particular line and circuit dimensions, line types, fire barriers, cable routing, etc.) a qualified personnel is essential. The SITECO GmbH assumes no liability for the correctness of the above representation.

3.3 Production hall

Stromlaufplan/wiring diagram

Licross® 11/21 Controller lokale Steuerung Licross® 11/21 Controller local control



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Example 3.2
Production hall
Licross Trunking
central control
SITECO Connect 22

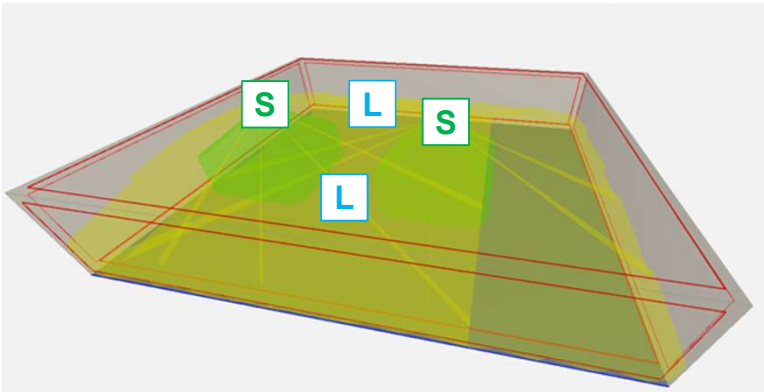
3.2 Production hall

- ▶ **Efficiency** through integrated energy-saving basic functions
- ▶ **Safety** through sensors with high detection quality
- ▶ **Modularity and freedom** in planning thanks to the Licross® family concept
- ▶ **Retrofittability** through modular sensor interfaces in existing plants
- ▶ **Future-proof** by using open Standards
- ▶ Maximum **flexibility** through individual addressing, thus adapting to changing needs.
- ▶ Central control and monitoring functions enable **dashboards** on plant status.



3.2 Production hall

Example production (LPH = max. 6m, length = 30m, width = 24m)



- = radial acquisition
- = tangential acquisition

Keep in mind when planning:

- Observe reference measuring surfaces under the light sensors **L** !
 - During motion detection, observe possible shadowing of the sensors **S** by inventory!
- Please note Erf.-range table!

Which products are needed?

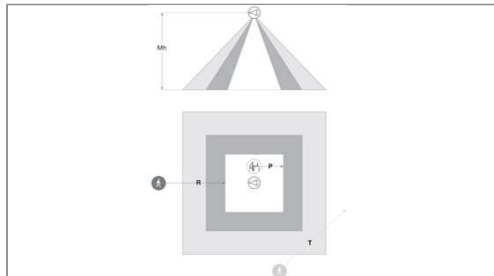
Components	Function	Order no.
Licross® light DALI & track		specific
Licross ® Sensor Insert PS2	Slave S	56TL1MDSPS2A
Licross ® sensor insert D1	Light sensor L	56TL1MDSD1B
SITECO Connect 22 Controller	Two DALI-lines	5LZ904712A
Key coupler 4-fold, 4 DI	DALI 2	5LZ904731A

Services

Commissioning	at cost
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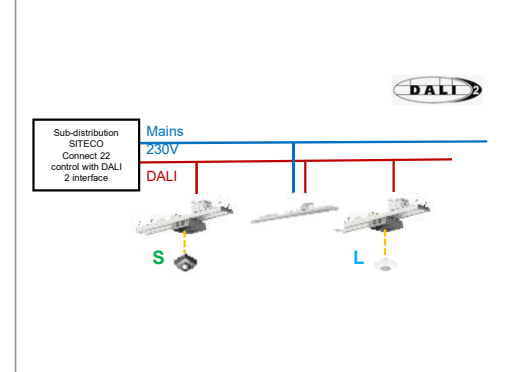
SITECO Connect 22 - maximum system sizes

# DALI ECG	max. 64 per DALI 2 line
# Sensors	max. 64 sensor functions per DALI 2 line (Attention, observe current consumption! max. output current of DALI control must not be exceeded!)



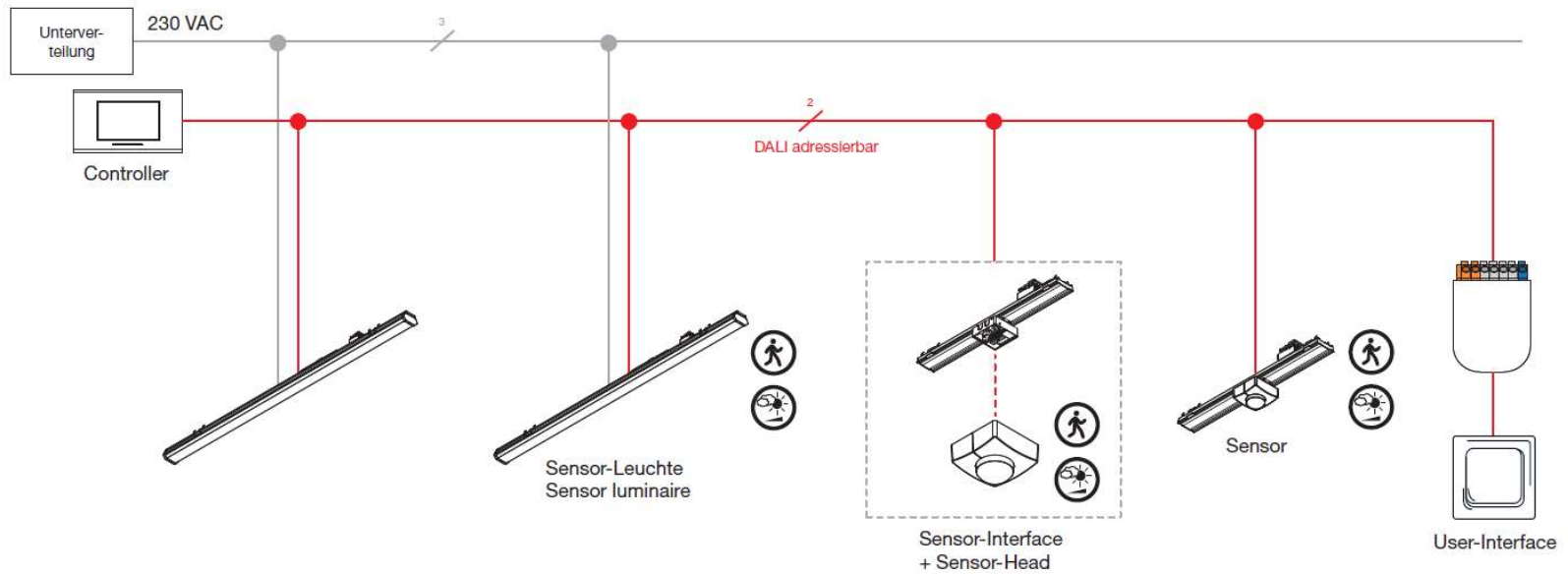
Sensor Head			
Designation	MH	R	T
PS2 (Relux-article-#025756)	3m	min. 3x3m	min. 4x4m
	10m	max. 8x8m	max. 24x24m
D1 (light sensor)			

Sub-distribution
SITECO Connect 22 control with DALI 2 interface



3.2 Production hall

Siteco Connect 22



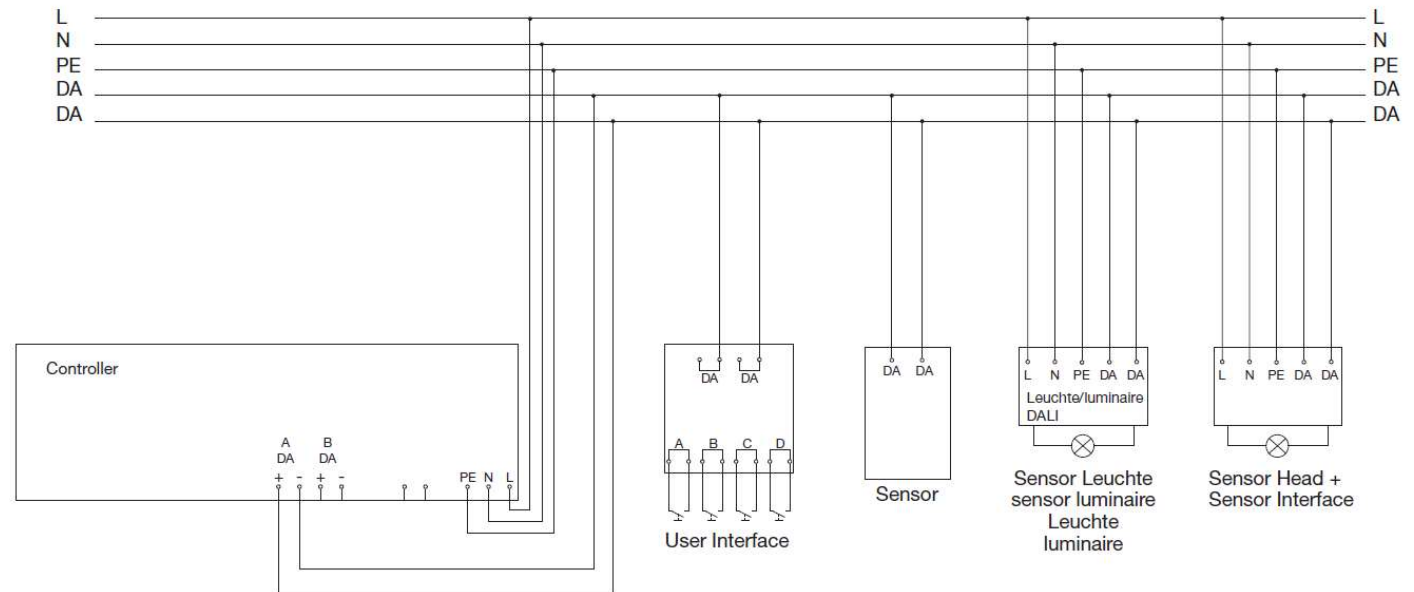
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3.2 Production hall

Stromlaufplan/wiring diagram

SITECO Connect 22



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Example 3.1
Production hall
Licross Trunking
central control
SITECO Connect 11

3.1 Production hall

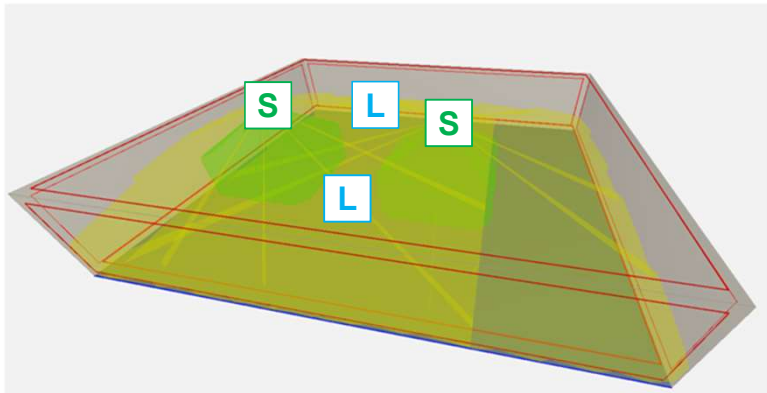
- ▶ **Efficiency** through integrated energy-saving basic functions
- ▶ Human Centric Lighting **HCL**
- ▶ **Safety** through sensors with high detection quality
- ▶ **Modularity** and **freedom** in planning thanks to the Licross® family concept
- ▶ **Retrofittability** through modular sensor interfaces in existing plants
- ▶ **Future-proof** by using open Standards
- ▶ Maximum **flexibility** through individual addressing, thus adapting to changing needs.
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3.1 Production hall

Example production (LPH = max. 6m, length = 30m, width = 24m)



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 - During motion detection, observe possible shadowing of the sensors **S** by inventory!
- Please note Erf.-range table!

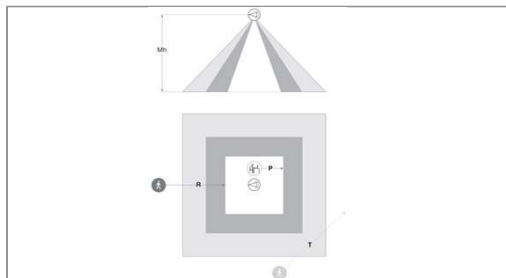
Which products are needed?

Components	Function	Order no.
Licross® light DALI & track		specific
Licross ® Sensor Insert PS2	Slave S	56TL1MDSPS2A
Licross ® sensor insert D1	Light sensor L	56TL1MDSD1B
SITECO Connect 11 basic package with TouchPanel	S/P (1-12 DALI lines) M/P (1-18 DALI lines)	5LZ930101 5LZ930103
SITECO Connect 11 basic package with Top-hat rails PC	S/D (1-12 DALI lines) M/D (1-18 DALI lines)	5LZ930100 5LZ930102
Key coupler 4-fold, 4 DI	DALI 2	5LZ930303

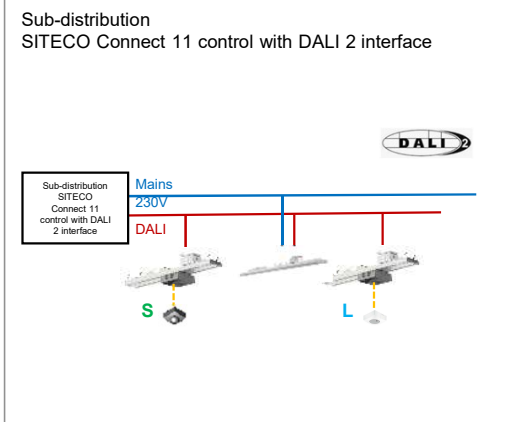
Services		Order no.
Addressing / linking luminaire	per ECG address	5LZ930D00
Addressing / linking sensor	per sensor	5LZ930D01
Overnight stay flat rate	Hotel costs	5LZ930D03
Travel / Travel expenses	per km ex. Verl	5LZ930D04
System Technician / Direction Work	per hour	5LZ930D02

SITECO Connect 11 - maximum system sizes

# DALI ECG	max. 63 per DALI 2 line
# Sensors	max. 30 per DALI 2 line (Attention, observe current consumption! Max. Output current of the DALI control must not be exceeded!)

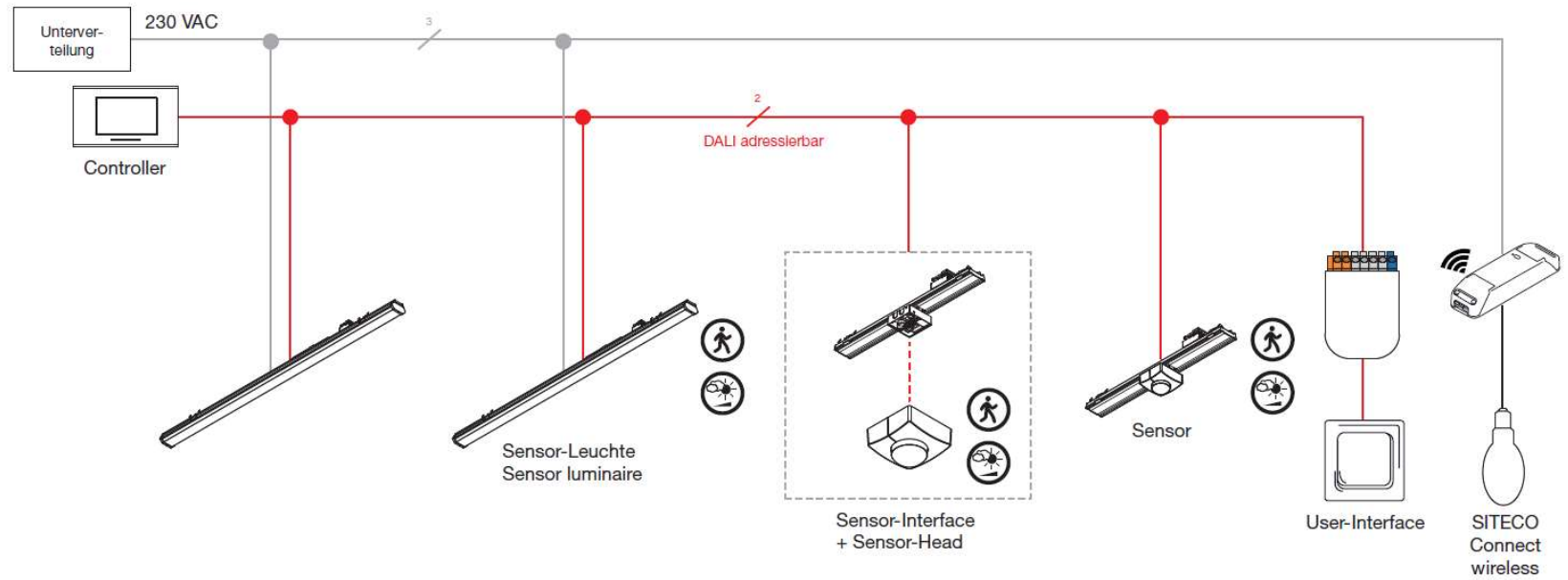


Sensor Head	MH	R	T
PS2 (Relux-article-#025756)	3m 10m	min. 3x3m max. 8x8m	min. 4x4m max. 24x24m
D1 (light sensor)			



3.1 Production hall

Siteco Connect 11



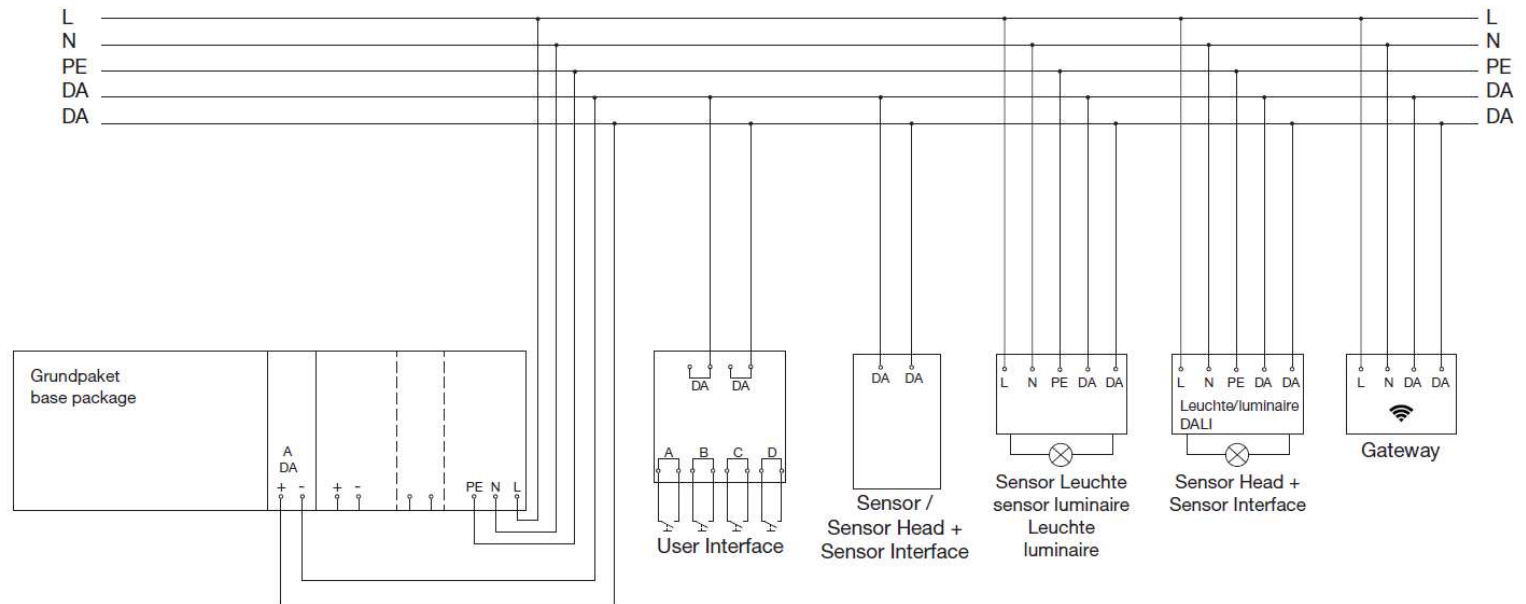
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Stromlaufplan/wiring diagram

SITECO Connect 11



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