

Modular continuous line system with lens technology for all

architectural lighting tasks
The Invia 48V continuous line
lighting system draws lines that
give rooms and spaces a sense of dynamism and emphasise their dimensions. Invia simultaneously offers complete architectural lighting with efficient and precise light distributions for room heights up to 8m: from linear wallwashers and downlights to spotlights on the Minirail 48V track insert and for projects ranging from public buildings and offices to museums. The system is suitable for recessing,

surface mounting and pendant mounting. Four conductors for 48V and the DALI control line are integrated in the basic profile. The luminaire inserts snap into place without tools to create uninterrupted light lines – even in corners and even with wallwashers. Digital connectivity, uplight inserts and tunable white make Invia ideal for Human Centric Lighting.



Invia 48V Light Structure



Structure and characteristics
The features described here are typical of products in this range. Special versions may offer additional or varying features. A comprehensive description of the features of individual products can be found on our website

1 ERCO lens system (downlight)

- Made of optical polymer Light distributions: wide flood, extra wide flood or diffuse

Reflector (wallwasher)

Aluminium, silver anodised, highly specular

Diffuser (uplight)

- Luminaire consists of 3 permanently connected units
- Polymer

ERCO LED-module

Mid-power LEDs: warm white (2700K or 3000K), neutral white (3500K or 4000K) or tunable white (2700-6000K)

3 Anti-glare cover

- Polymer
- Downlight: white (RAL9016) or black
- Wallwasher: white (RAL9002) or

4 Housing

Aluminium profile/polymer

5 Control gear

- Switchable or DALI dimmable Control with Casambi Bluetooth via
- accessories: please order Casambi DALI Gateway separately

6 Profile

- Aluminium profile, can be shortened
- Shapes: linear or corner
- Shapes: linear or corner 2 insulated copper conductors, 4.5mm². 1 circuit, max. 10A 2 insulated copper conductors, 4.5mm², for connection to DALI control line Underside: for accommodating luminatives.
- luminaires
- Surface-mounted profile/pendant profile: white (RAL9002), black or silver powder-coated. Upper side for mounting to ceiling or for accommodating pendant accessories, uplights or connection cable Covered recessed profile: white
- (RAL9002) or black powder-coated,
- flanges for ceiling panels Flush recessed profile: mounting in drywall ceilings. Adjustable for ceiling thicknesses 12.5-25mm

Variants on request
- Profile: 10,000 further colours Please contact your ERCO consultant.



Design and application: www.erco.com/invia-48V

Invia 48V Light Structure



Linear wallwashing Linear Invia 48V wallwashers illuminate vertical surfaces extremely efficiently and with excellent uniformity, even around corners.



Suitable for office workstations ERCO develops luminaires with the specifications of good glare control and high visual comfort. UGR values are used as support for purely norm-referenced lighting. With downlights though this should not be carried out using 'blanket' values, but should be implemented according to the individual arrangement of luminaires in the room.



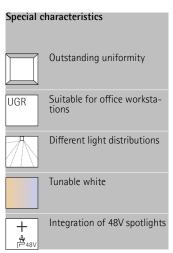
Various luminaire inserts You can insert Invia 48V luminaires into the profile without tools. Downlights for various applications, an uplight and wallwashers with tunable white enable qualitative lighting concepts.



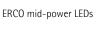
Tunable white technology Just as the colour temperature outdoors changes continuously during the day, the colour temperature of the lighting can be adjusted indoors to e.g. support lighting concepts for Human Centric Lighting.

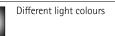


Integration of 48V spotlights From accentuation with a 5 narrow spot to zoom optics and precise framing with tunable white and RGBW. By integrating Minirail 48V, you can use all ERCO 48V spotlights.











Excellent thermal management



Switchable



EMC-optimised



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DALI controllable

Casambi Bluetooth



Various housing colours



Various construction sizes

Easy installation



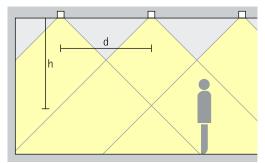
Continuous line arrangements are possible



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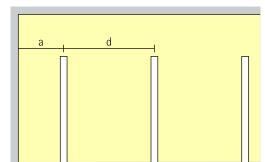
Invia 48V Light Structure – Luminaire arrangement

Downlights Wide flood, Extra wide flood, Diffuse



General lighting For uniform general lighting with high visual comfort, the luminaire spacing (d) between two linear lnvia 48V downlights may be up to 1.5 times the height (h) of the luminaire above the working plane (rough guide).

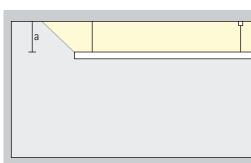
Arrangement: $d \le 1.5 \times h$



The wall offset should be half the luminaire spacing.

Arrangement: a = d / 2

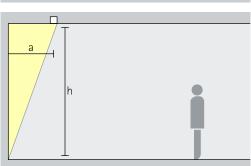
Uplights Diffuse



General lighting Indirect lighting on bright ceilings increases the visual comfort due to diffusely reflected light. The room also appears to be higher. The profile should be suspended from a height of at least 0.5m.

Arrangement: a ≥ 0.5m

Wallwasher Wallwash



Wallwashing For uniform vertical lighting, the distance to the wall (a) of linear Invia 48V wallwashers should be at least one third of the room height

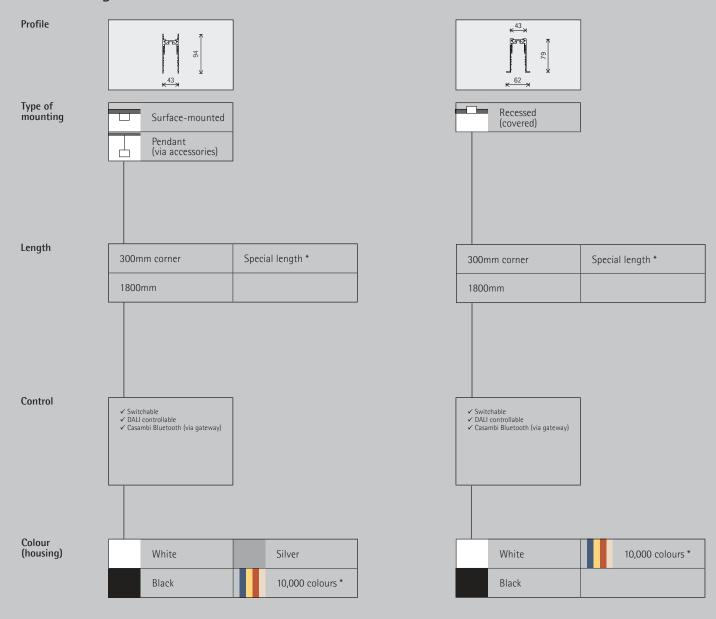
Arrangement: $a = 0.4 \times h$

Optimal wall distances for individual products are specified in the wallwasher tables.

Invia 48V modular in offices. Visualisation: Electric Gobo

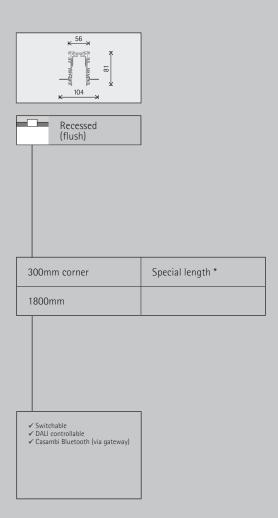


Invia 48V light structure



Accessories

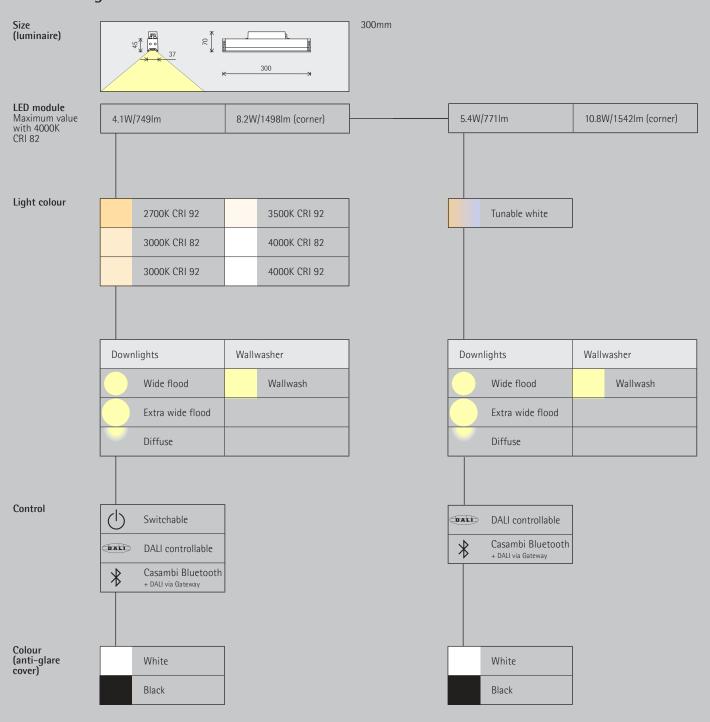
Mounting kit for Minirail		Suspensions		Power supply units
Electrical connectors	å	Mounting devices	[0000]	Casambi DALI gate- way





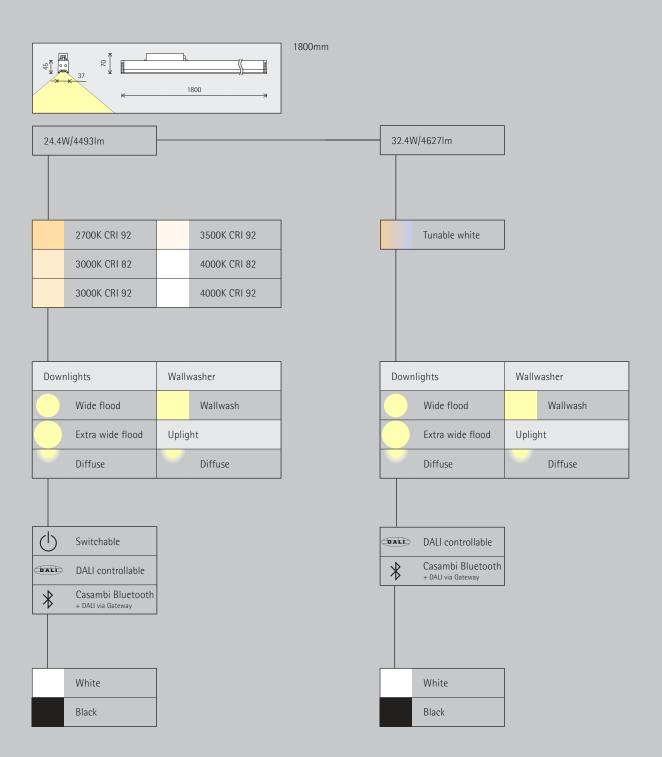
^{*} available on request

Invia 48V light structure



Accessories

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ERCO Minirail 48V products
Miniaturised, flexible and efficient.
The low voltage system from ERCO enables high quality lighting concepts with extremely compact tracks and spotlights.

For an overview of our Minirail 48V luminaires as well as 48V track, visit www.erco.com/48V

Article numbers and planning data: www.erco.com/022544

Design and application: www.erco.com/invia-48v



