

CITY ELEMENTS 200

Evolution in light and multifunctionality



More than just a luminaire.

CITY ELEMENTS is a multifunctional lighting system suitable for meeting all requirements of a city.

Thanks to the variety and versatility of its elements, diameters of 180mm, 200mm and 230mm and variable heights up to 9 meters and even above, the system easily configures to match its specific architectural environment proportionately.

CITY ELEMENTS 200 – the new cutting edge

With the CITY ELEMENTS 200, Hess has brought together the advantages and decades of experience of the globally successful models CITY ELEMENTS 180 and CITY ELEMENTS 230 in an innovative yet simple illuminating column.

With a diameter of 200 mm as well as many innovations, the CITY ELEMENTS 200 is the new cutting edge, destined for use in attractive design and supply concepts in urban areas.

A holistic solution for cities

The potential of CITY ELEMENTS 200 goes far beyond illumination: The most innovative LED technology and individually combinable basic, intermediate and top elements offer a variety of additional features and supply solutions for the urban requirements of today and tomorrow – whether loudspeakers, cameras, spotlights, power and water connections, or charging infrastructures for e-mobility. Despite this versatility, it is extremely easy to handle, that is to say, easy to set up and easy to install.

CITY ELEMENTS 200: Simply variable, simply multifunctional – simply smart.



1

Optimum integration in both modern and older architectural settings.

2

Various column heights configurable with multiple varied optical systems.

3

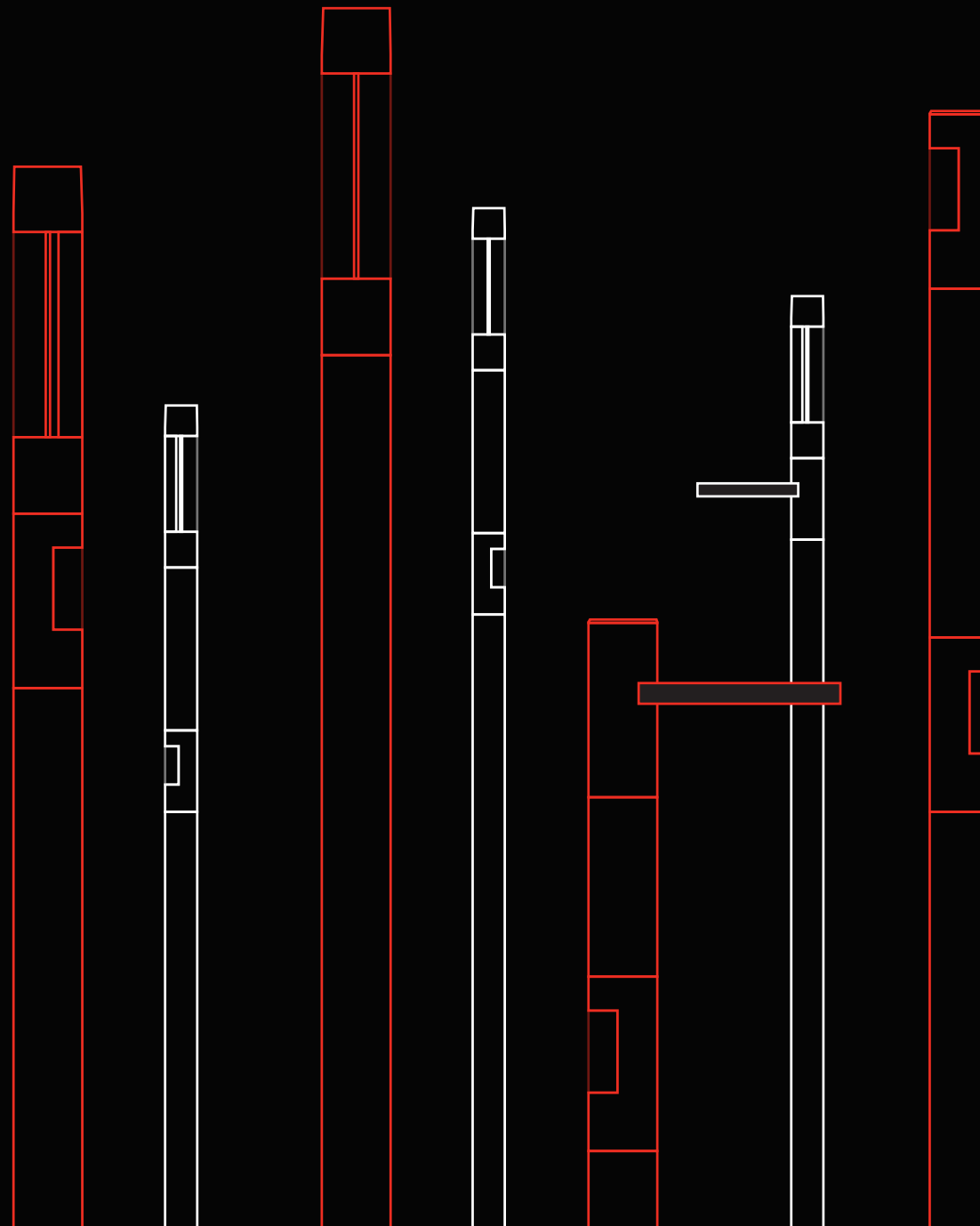
Extremely efficient due to high-efficacy LED-technology.

4

Ideal for numerous lighting and utility functions for Cities and Municipalities (WLAN, security solutions, public address speakers, electricity and water supply, RGB, projectors, e-mobility charging infrastructure).

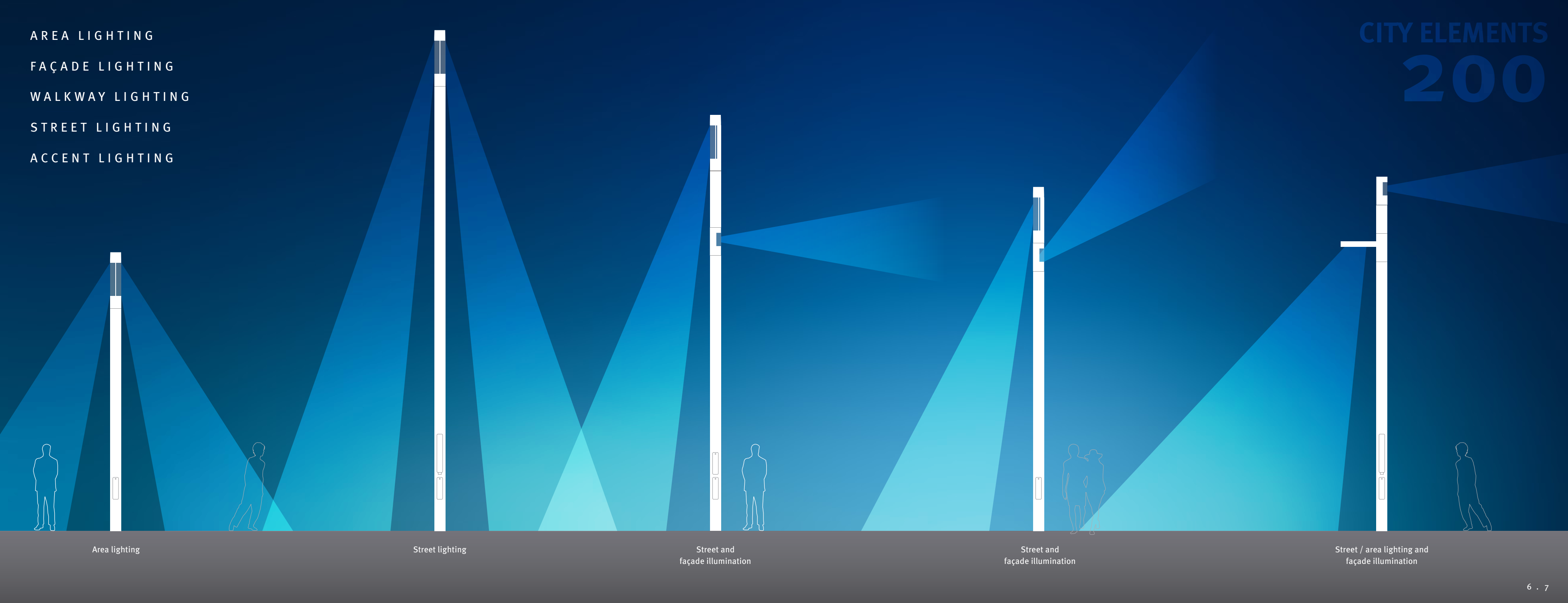
5

Minimum installation work – only 1 tool. Extremely easy to install and handle – in all weathers.



AREA LIGHTING
FAÇADE LIGHTING
WALKWAY LIGHTING
STREET LIGHTING
ACCENT LIGHTING

CITY ELEMENTS
200



Area lighting

Street lighting

Street and
façade illumination

Street and
façade illumination

Street / area lighting and
façade illumination

CITY ELEMENTS – GET CREATIVE!

With Hess’ CITY ELEMENTS, both your creativity and the column’s future uses are free to develop, as need dictates – now and in the future.

CITY ELEMENTS delivers more than unlimited lighting potential, adding many useful functions and expanding your creative repertoire.

Light and multifunctionality – at their best.

1 Light + communication (display integrated in the column for time/date/temperature/UV radiation/ozone/pollen)

2 Security solutions (for example cameras)

3 Emergency call functions

4 Electricity and water supply

5 WLAN

6 E-mobility charging infrastructure

CONTROL EQUIPMENT

LIGHT MANAGEMENT

SENSOR TECHNOLOGY

WLAN

E-MOBILITY

POWER SUPPLY

WATER SUPPLY

SECURITY / CAMERA

SPEAKER

DISPLAY

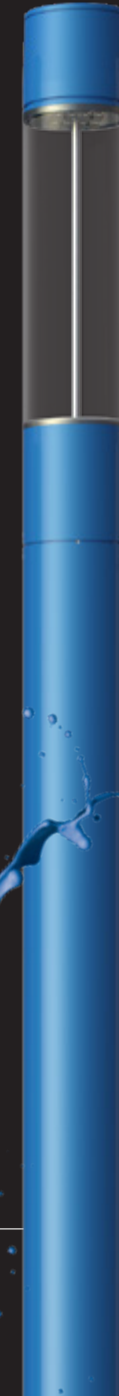
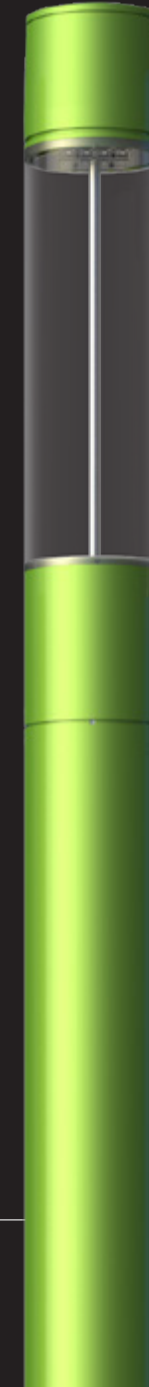


OUR CITY ELEMENTS EVOKE EMOTION

The ability to customize the colour scheme of illuminating columns can intensify emotions. Colour is a powerful design element. Colour adds character and is a truly urban element. Which makes colour a CITY ELEMENT.

Whether white, red, green, grey, blue or black– which colour is your colour?

CITY ELEMENTS by Hess. Individual and unique.



CITY ELEMENTS 200

Thanks to its completely new design and construction, it takes just a few simple movements and simple tools to allow the CITY ELEMENTS 200 to be quickly and effortlessly...

... set up, added to, scaled down or retrofitted according to modular principles – in any weather!

Guaranteed and patented.

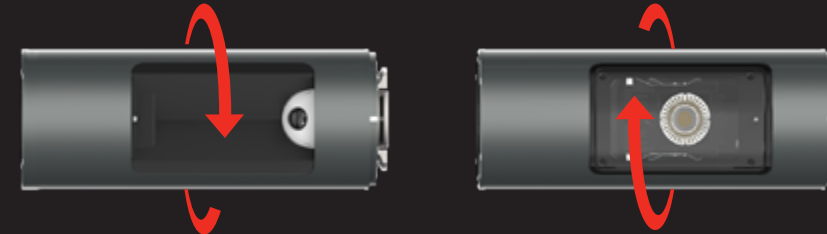
We make this a reality on the basis of a completely new concept. This means the illuminating column consists of initially empty basic and intermediate elements. This basic framework is then equipped as needed with self-contained and thus sealed elements, so-called inserts. These inserts are simply placed into the recesses provided and affixed, without it being necessary to open them, resulting in a whole new dimension of simplicity.

The top elements are factory sealed and only need to be put on and connected.

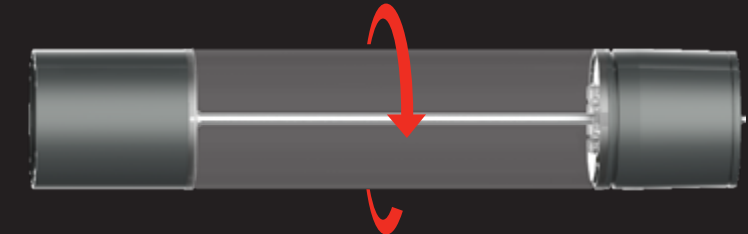
CITY ELEMENTS 200 by Hess – modularity and simplicity par excellence.



BASE ELEMENT



INTERMEDIATE
ELEMENT



TOP ELEMENT

CITY ELEMENTS 200 and DALVIK – the perfect combination

The CITY ELEMENTS stand for the most diverse multifunctionality – and that at its best. Due to the impressive combination of the illuminating column with the DALVIK S luminaire, the CITY ELEMENTS offer even more possibilities for holistic lighting solutions.

CITY ELEMENTS and DALVIK – for holistic lighting and infrastructure solutions.



CITY ELEMENTS 200 with DALVIK S

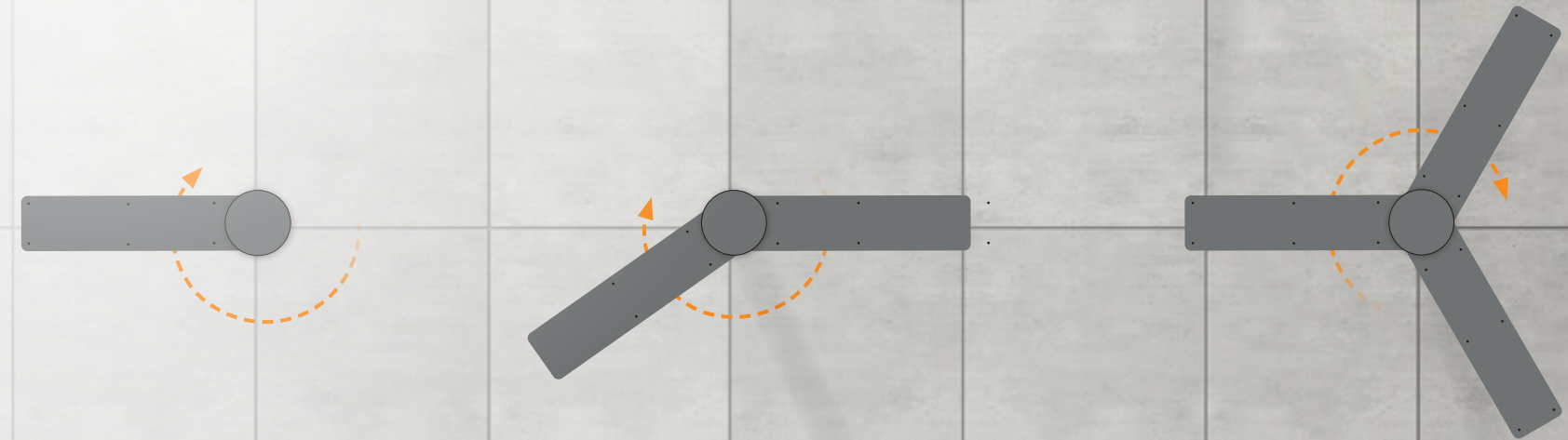
In combination with the DALVIK S, the CITY ELEMENTS 200 is designed for heights of up to 9 meters. The 200 model can be fitted with up to 3 DALVIK S luminaire heads.



www.hess.eu/dalvik

As a result of the connection of the DALVIK S to the CITY ELEMENTS, its lighting technology becomes more flexible and versatile and thus offers architects, planners and lighting designers an even broader spectrum of applications – and simultaneously, a highly attractive appearance.

Reflecting the DALVIK slogan – „Your city will love them“ – CITY ELEMENTS incorporates the best of both worlds in this configuration – namely maximum multifunctionality and the best lighting.





MOUNTING

The CITY ELEMENTS 200 consists of individual, open tube elements with fixed standard heights – and corresponding recesses for the (multifunctional) elements, the inserts.

These tube elements are affixed from the outside by four screws attached in a narrow shadow gap. The internal mechanism guarantees absolutely secure connection of the individual elements without restricting their rotation.

ROTATING

The intermediate and top elements can be steplessly rotated by 360° and aligned as needed before the mechanical inner closure is finally tightened – in an unproblematic and simple manner.

After that, the element can also be easily adjusted by slight unscrewing of the screws.

EQUIPPING

The multifunctional elements, such as the lighting and supply modules, are available as self-contained inserts and are placed into the recesses provided for the tube elements.

Fine alignment of the reflector in a light element can be accomplished after opening the cover of the insert from the front with a simple hand movement. Each individual multifunctional or illuminating element is connected individually to the cable junction box in the base element.

The steps of installation and putting into service are separated in this way. Or in other words: Installation and handling are made easy – while ingress of humidity is prevented (no opening) regardless of prevailing weather conditions.

STYLING

Thanks to its modular system, the CITY ELEMENTS 200 can be individually tailored to your needs, impressing in every configuration with its elegant design – a design made for attractive styling and supply solutions in modern and historical surroundings – and with a diameter that guarantees a wide variety of multifunctional possibilities while simultaneously meeting the highest aesthetic standards.



TOP ELEMENT



OPTICAL SYSTEM 1

downwards

L1.9 / LEVO3

LED-module for asym. & sym.
street or area lighting



Rot. sym



Asym.

L1

INTERMEDIATE ELEMENT



OPTICAL SYSTEM 3

lateral

L3.1



Reflector
Asym. distribution area/walkway lighting downwards

LED

L3.2



Reflector
Asym. distribution for facade lighting upwards

LED

L3.3



Spot
Rot. sym. reflector
-35° up to +35° inclinable for facade lighting

LED

L3

BASE ELEMENT



ILLUMINATION

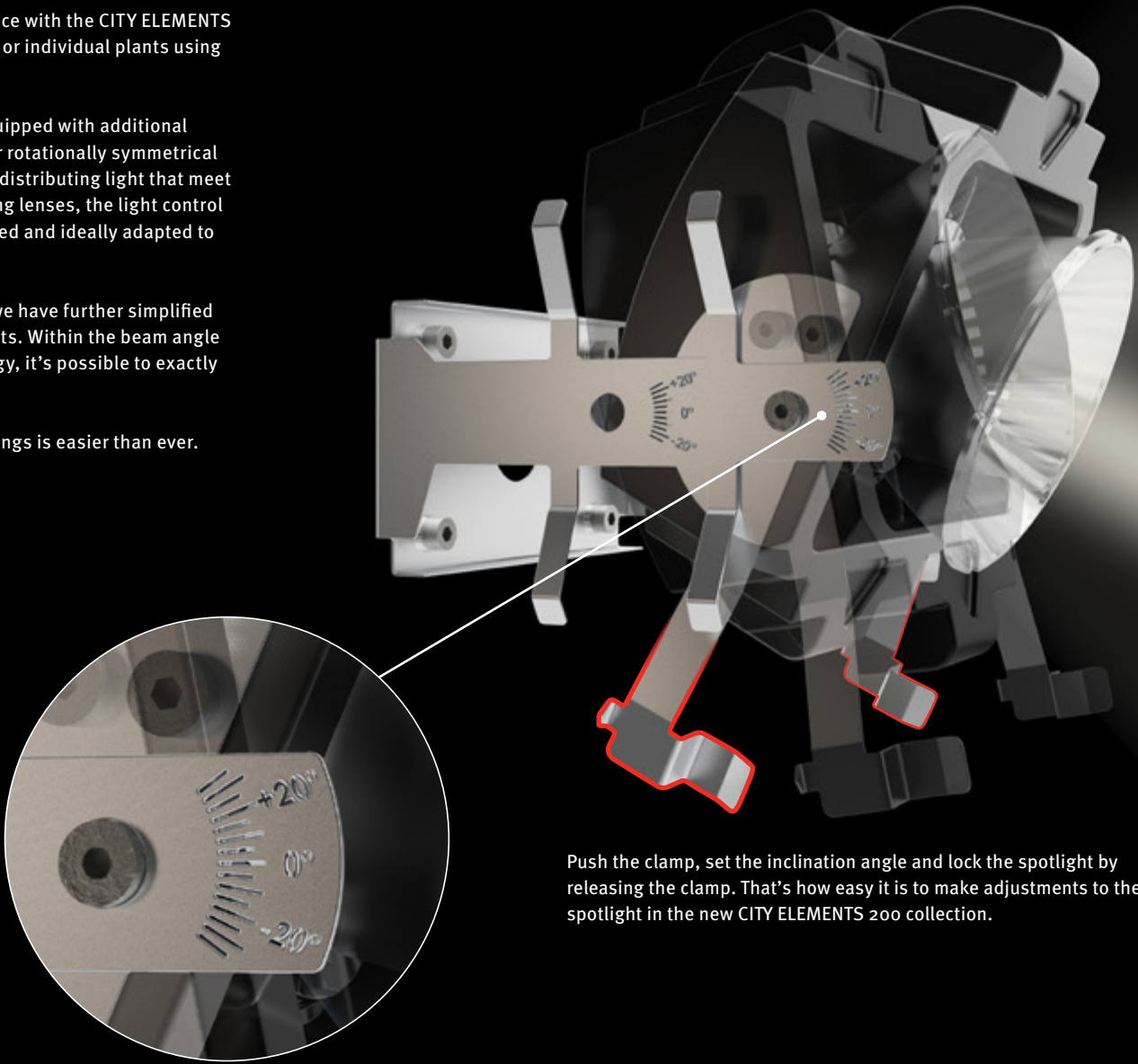
Increase the attractiveness of an urban space with the CITY ELEMENTS 200 and perfectly stage façades, fountains or individual plants using target illumination.

For this, the CITY ELEMENTS 200 can be equipped with additional illuminating elements as required. Whether rotationally symmetrical or asymmetrical – we offer various ways of distributing light that meet just about any need. Using optional diffusing lenses, the light control and the light quality can be further optimised and ideally adapted to the respective project.

So that the highlights can take full effect, we have further simplified the adjustability of the illuminating elements. Within the beam angle specified by the selected lighting technology, it's possible to exactly align the spotlight easily and at any time.

So you see, the way to achieve perfect settings is easier than ever.

The new simplicity – Made by Hess.

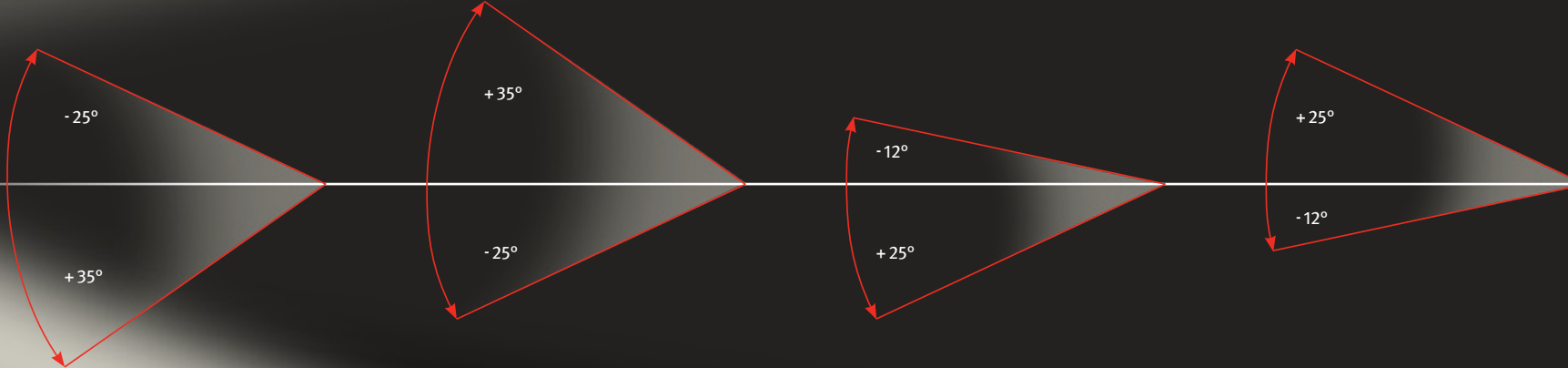


Push the clamp, set the inclination angle and lock the spotlight by releasing the clamp. That's how easy it is to make adjustments to the spotlight in the new CITY ELEMENTS 200 collection.

Optical systems

- | | | | |
|---|---|---|---|
| L3.1 „DOWN“ asymmetrical downwards | L3.2 „UP“ asymmetrical upwards | L3.3 „DOWN“ rotationally symmetrical
▸ Reflector 14° | L3.3 „UP“ rotationally symmetrical
▸ Reflector 14° |
| L3.3 „DOWN“ rotationally symmetrical
▸ Reflector 18°, 28°, 46° | L3.3 „UP“ rotationally symmetrical
▸ Reflector 18°, 28°, 46° | | |

Reflector adjustments





CITY ELEMENTS 200
Charging station

CHARGING STATION

Low emission city centres and fuel from power outlets.
Mobility is changing.

We will pave the way for new strategies for you – and the way to
electromobility, with modern and intelligent charging infrastructures.
We perfectly integrate electric charging stations in our lighting.
The result is: an installation with real added value.

Experience the mobility of tomorrow – today.

We'll be happy to show you how!



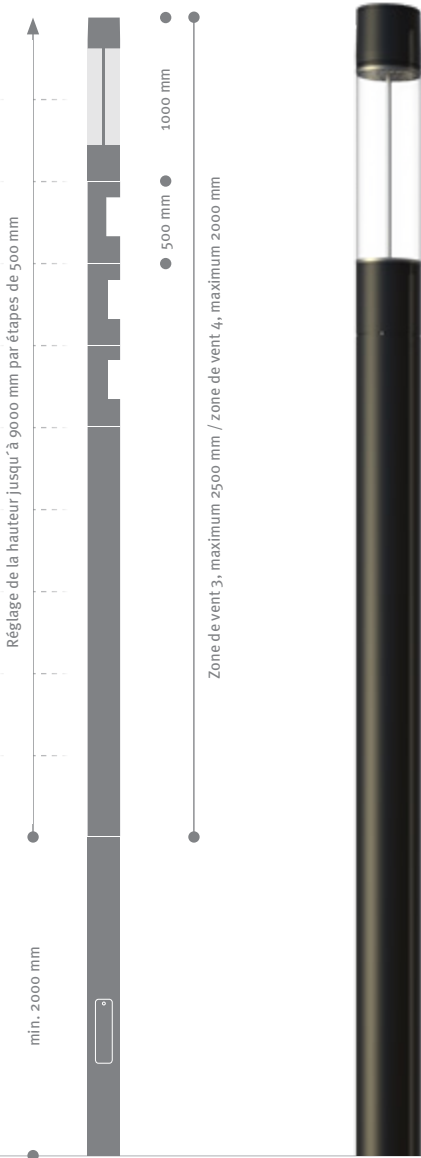


CITY ELEMENTS 200



Product information
www.hess.eu/en/ce200

Hess columnar lighting system with top, base and, if required, intermediate extension elements. Constructed from round aluminium section. 200 mm diameter, for a maximum height of 9 m. All of the elements pivot through 360°. Colour: DB 703 or all RAL- (classic- single shades), Hess-DB and Hess-Glimmer-colours. RAL pearl-mica-metallic-shades on request. If illuminated columns are installed up to a total installation height of 5500 mm, the total length of the embedded base or attached embedded base is 800 mm. If illuminated columns are installed up to a total installation height of 6000 to 9000 mm, the total length of the base is 1200 mm.



CHOOSE YOUR HEIGHT:

Starting from the base element with a minimum height of 2000 mm, it can be extended in 500 mm steps according to your wishes and the needs of the lighting situation. CITY ELEMENTS 200 reaches a maximum total height of up to 9000 mm.

For wind zone 3, the installation height of the base element connection is a maximum of 2500 mm up to the end of the top element. For wind zone 4, the installation height of the base element connection is a maximum of 2000 mm up to the end of the top element.



Top Element AR | CITY ELEMENTS 200-2

Top element made of aluminium. Ø 200 mm, for asymmetrical or rotationally symmetrical plaza and street lighting, foot and cycle path lighting, and carpark lighting. Without inspection door. Luminaire glass made of PMMA, element height 1000 mm. Colour: DB 703 or all RAL- (classic- single shades), Hess-DB and Hess-Glimmer-colours. RAL pearl-mica-metallic-shades on request. Ingress protection IP 65, IK 06, protection class I/II, CE

Optional: WLAN. Night-time dimming with or without control line. DALI dimming and special shapes.



Top Element AA | CITY ELEMENTS 200-2

Top element made of aluminium with inner 120° shade. Ø 200 mm, for asymmetrical plaza or street lighting, foot and cycle path lighting, and carpark lighting. Without inspection door. Luminaire glass made of PMMA, element height 1000 mm. Colour: DB 703 or all RAL- (classic- single shades), Hess-DB and Hess-Glimmer-colours. RAL pearl-mica-metallic-shades on request. Ingress protection IP 65, IK 06, protection class I/II, CE

Optional: WLAN. Night-time dimming with or without control line. DALI dimming and special shapes.



Top Element AS | CITY ELEMENTS 200-2

Top element made of aluminium. Ø 200 mm, with side recess for receiving an insert. Insert with lateral light emission for asymmetrical or symmetrical illumination of plazas, paths and façades. Lateral PMMA cover, clear. Element height 525 mm. Colour: DB 703 or all RAL- (classic- single shades), Hess-DB and Hess-Glimmer-colours. RAL pearl-mica-metallic-shades on request. Ingress protection IP 65, IK 07, protection class I/II

Note: With L3.3 LED optionally 14°, 18°, 28° or 46° emission characteristics.

Optional: Ribbed glass or prism panel. Night-time dimming with or without control line. DALI dimming and special shapes.



Top Element AD - ADAPTER DALVIK S | CITY ELEMENTS 200-2

Top element 200-2 AD - ADAPTER DALVIK S constructed from cast aluminium. Ø 200 mm with lateral adaptor für luminaire DALVIK S. Module length 525 mm. For area or street lighting with DALVIK S. Colour: DB 703 or all RAL- (classic- single shades), Hess-DB and Hess-Glimmer-colours. RAL pearl-mica-metallic-shades on request.



Intermediate Element BS 500 | CITY ELEMENTS 200-2

Intermediate element made of aluminium. Ø 200 mm, with side recess for receiving an insert. Insert with lateral light emission for asymmetrical or symmetrical illumination of plazas, paths and façades. Lateral PMMA cover, clear. Element height 500 mm. Colour: DB 703 or all RAL- (classic- single shades), Hess-DB and Hess-Glimmer-colours. RAL pearl-mica-metallic-shades on request. Ingress protection IP 65, IK 07, protection class I/II
Note: With L3.3 LED optionally 14°, 18°, 28° or 46° emission characteristics.
Optional: Ribbed glass or diffuser. Night-time dimming with or without control line. DALI dimming and special shapes.



Intermediate Element BK 500 | CITY ELEMENTS 200-2

Intermediate element made of aluminium. Ø 200 mm, with integrated camera and lining of the recess without additional element cover. Camera field of view approx. 120°, lens inclinable by up to -90°. Connection and extension provided by the customer. Connection only via PoE, 48V, 0.5A, max. connected load 4,2 W. Element height 500 mm. Colour: DB 703 or all RAL- (classic- single shades), Hess-DB and Hess-Glimmer-colours. RAL pearl-mica-metallic-shades on request.

Ingress protection IP 66, IK 10, CE



Intermediate Element Speaker | CITY ELEMENTS 200-2

Intermediate element made of aluminium. Ø 200 mm, with integrated loudspeaker and perforated metal cover. Connection and extension provided by the customer. Beam angle 170° H x 160° V, continuous load capacity 2 16 W (64 W peak), nominal impedance 8 Ω (transformer bypassed). Element height 500 mm. Colour: DB 703 or all RAL- (classic- single shades), Hess-DB and Hess-Glimmer-colours. RAL pearl-mica-metallic-shades on request.

Protection class IP 55, CE



Intermediate Element BD - ADAPTER DALVIK S | CITY ELEMENTS 200-2

Intermediate element 200-2 BD - ADAPTER DALVIK S made of aluminium. Ø 200 mm with lateral adaptor für luminaire DALVIK S. Module length 500 mm. For area or street lighting with DALVIK S. Colour: DB 703 or all RAL- (classic- single shades), Hess-DB and Hess-Glimmer-colours. RAL pearl-mica-metallic-shades on request.



Intermediate Element BH | CITY ELEMENTS 200-2

Intermediate element made of aluminium. Ø 200 mm. Element height min. 500 mm. Prolongable in 500 mm steps. Colour: DB 703 or all RAL- (classic- single shades), Hess-DB and Hess-Glimmer-colours. RAL pearl-mica-metallic-shades on request.



Base Element CRo2/o4 | CITY ELEMENTS 200-2

Base element made of aluminium tubing for a total column height up to 9000 mm. ø 200 mm, with inspection door and top C rail for cable junction box. Element height at least 2000 mm above the ground. External fixing via welded flange plate Q400/25 mm or Q400/35 mm. Colour: DB 703 or all RAL- (classic- single shades), Hess-DB and Hess-Glimmer-colours. RAL pearl-mica-metallic-shades on request.

Base Element CRo3 | CITY ELEMENTS 200-2

Base element made of aluminium tubing for a total column height up to 9000 mm. ø 200 mm, with inspection door and top C rail for cable junction box. Element height at least 2000 mm above the ground. Secured by attached embedded base. Length of base 800 or 1200 mm, depending on total height, with two cable entry openings. Colour: DB 703 or all RAL- (classic- single shades), Hess-DB and Hess-Glimmer-colours. RAL pearl-mica-metallic-shades on request.



Base CRo2/CRVo2 | CITY ELEMENTS 200-2

Separate embedded base for base element CRo2/CRVo2. Made of steel, galvanized. With connecting screws. With two cable entry openings. Length of base 800 or 1200 mm, depending on total column height.



Base Element CRVEo2/o4 | CITY ELEMENTS 200-2

Base element made of aluminium tubing for a total column height up to 9000 mm. ø 200 mm, with two inspection doors and top C rail below for cable junction box. Inspection door above for customer-provided supply unit, door with cable outlet and cylinder lock for operation with the door closed. Element height at least 2500 mm above the ground. External fixing via welded flange plate Q400/25 mm or Q400/35 mm. Colour: DB 703 or all RAL- (classic- single shades), Hess-DB and Hess-Glimmer-colours. RAL pearl-mica-metallic-shades on request.

Base Element CRVEo3 | CITY ELEMENTS 200-2

Base element made of aluminium tubing for a total column height up to 9000 mm. ø 200 mm, with two inspection doors and top C rail below for cable junction box. Inspection door above for supply unit, door with cable outlet and cylinder lock for operation with the door closed. Element height at least 2500 mm above the ground. Secured by attached embedded base. Length of embedded base 800 or 1200 mm, depending on attachment height, with two cable entry openings. Colour: DB 703 or all RAL- (classic- single shades), Hess-DB and Hess-Glimmer-colours. RAL pearl-mica-metallic-shades on request.



Base Element CRVWo2/o4 | CITY ELEMENTS 200-2

Base element made of aluminium tubing for a total column height up to 9000 mm. ø 200 mm, with two inspection doors and top C rail above for cable junction box. Lower inspection door for supply unit OF o1, 1 x outlet valve 3/4“ with aerator in discharge shape and backflow preventer. 1 x oblique seat shut-off valve 3/4“ with backflow preventer and drain. Door with cylinder lock for operation with the door open. Element height at least 2500 mm above the ground. External fixing via welded flange plate Q400/25 mm or Q400/35 mm. Colour: DB 703 or all RAL- (classic- single shades), Hess-DB and Hess-Glimmer-colours. RAL pearl-mica-metallic-shades on request.

Base Element CRVWo3 | CITY ELEMENTS 200-2

Base element made of aluminium tubing for a total column height up to 9000 mm. ø 200 mm, with two inspection doors and top C rail above for cable junction box. Lower inspection door for supply unit OF o1, 1 x outlet valve 3/4“ with aerator in discharge shape and backflow preventer. 1 x oblique seat shut-off valve 3/4“ with backflow preventer and drain. Door with cable outlet and cylinder lock for operation with the door closed. Element height at least 2500 mm above the ground. Secured by attached embedded base. Length of embedded base 800 or 1200 mm, depending on attachment height, with two cable entry openings. Colour: DB 703 or all RAL- (classic- single shades), Hess-DB and Hess-Glimmer-colours. RAL pearl-mica-metallic-shades on request.



Base Element CRVo2/o4 E-MOBILITY | CITY ELEMENTS 200-2

Base element made of aluminium tubing for a total column height up to 6000 mm. ø 200 mm, with inspection door and top C rail below for cable junction box. Charger above with charging socket: type 2 (3-phase, 400VAC, 32A), automatic locking, rated power up to 22 kW, earthed socket (1-phase, 230VAC, up to 16A), integrated meter EHZ - EDL 21/40, meter display, status indicator: LED (green, yellow, blue), LCD optional, authorisation/activation: RFID Mifare Classic, via SMS or mobile app (iPhone, Android). Element height at least 2500 mm above the ground. Mounting via welded flange plate Q400/35 mm. Colour: DB 703 or all RAL- (classic- single shades), Hess-DB and Hess-Glimmer-colours. RAL pearl-mica-metallic-shades on request.



Hess GmbH Licht + Form
Lantwattenstraße 22
D-78050 Villingen-Schwenningen
Tel.: + 49 (0) 7721 920-0
E-Mail: info@hess.eu
www.hess.eu

© Hess GmbH Licht + Form
03/2020

Errors and changes excepted.
Illustrations are not binding.