iQ
inside

siteco

Bell iQ

Classically innovative. More efficient than ever.

When tradition meets the future …

Classics don't get older with each year, they get better. This also applies to the Bell from SITECO, a real classic when it comes to decorative street lighting – but now with a state-of-the-art interior.

Outwardly, the Bell iQ retains its traditional design with strong recognition force. But within lies a cutting-edge lighting technology that not only allows highly efficient operation but also offers future-oriented control options. And the best part: The LED module including cover is available as a refurbishment kit that's ready for immediate use.

The Bell iQ — classically innovative.

Smart-Interface on the inside

iQ inside

✓ **Saves time and money**

- Convenient, quick refurbishment of existing systems
- High energy and cost savings potential thanks to ideal system performance
- More efficient than ever before with up to 167 lm/W

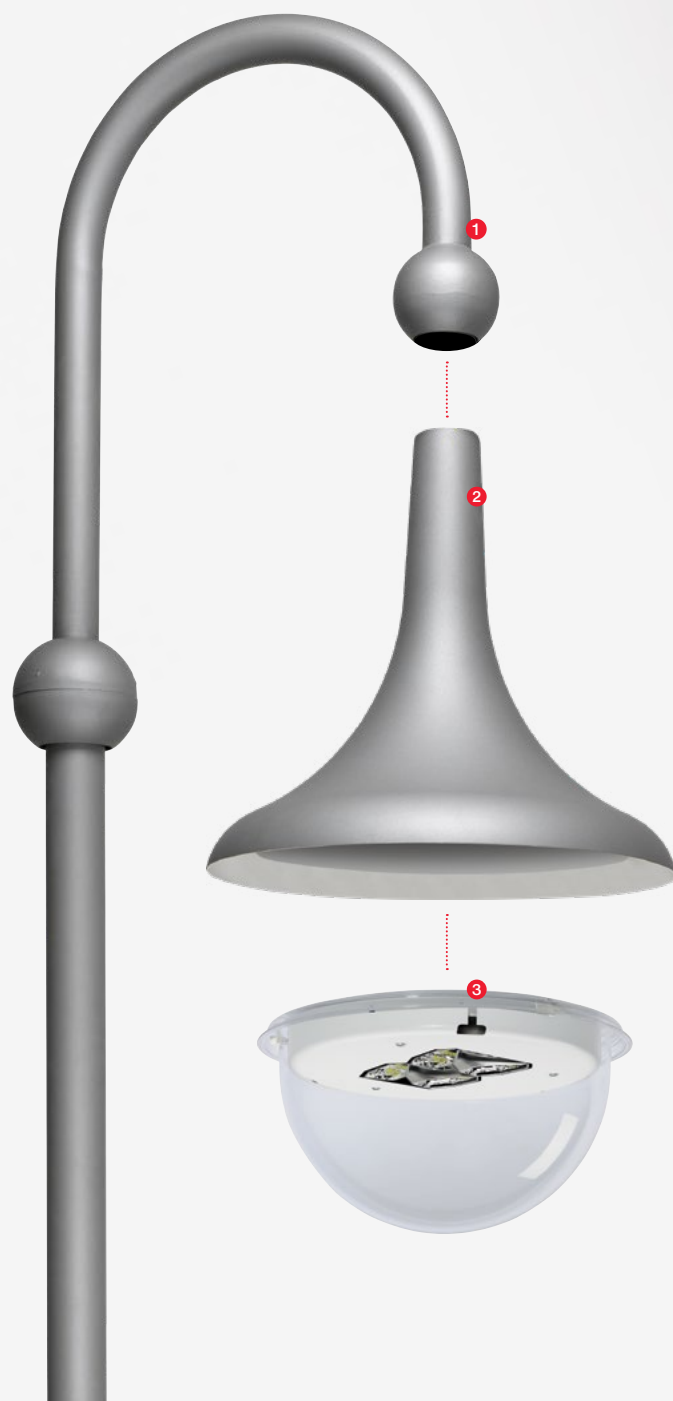✓ **Safeguards your decision for the future**

- Can be flexibly upgraded with Smart-Interface to subsequently connect control system components
- Sustainable product concept with replaceable ECG / LED module
- The right settings are always available: automatic data exchange between ECG / LED module

✓ **Creates high visibility and safety**

- Precisely directed light ensures high visibility and safety
- Various covers increase uniformity and reduces glare
- Optional flat glass diffuser to reduce light spill upwards (Dark Sky Cat. 0)

Modular thinking.

The product concept of the Bell ensures the traditional luminaire can remain a part of the city without taking a seat behind new LED solutions in terms of lighting technology.

❶ Mast and bracket

A mast lasts a good 50 years, thus the mast and bracket are usually retained during modernization. The housing is easy to mount and connect, having featured a bayonet lock since 2002.

❷ Luminaire housing

The housing is usually not replaced either. This preserves the value of the luminaire itself.

❸ Bell LED module

With the Bell LED module, the gear tray and diffuser come already preassembled. This means the switch to LED takes only a few minutes. And the new clear cover not only looks clean, it also enables unhampered, efficient light control.

LED in no time at all.

Easy installation is a top priority for the Bell. That's why it only takes a few minutes to update individual light points and make them future proof – from conventional lamp equipment to efficient LED technology. That gets the heart of every technician beating faster.

The old diffuser is removed by rotating it.

Two screws, which are used to attach the old gear tray, are loosened and also removed.

The LED module including the new cover is fastened to the housing using a retaining wire. This leaves both hands free to complete the electrical connection.

The module and diffuser are locked into place in the luminaire by using a rotating motion.

Light: **intelligent.**
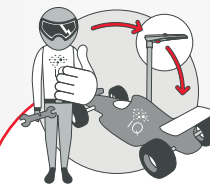# Control: **intuitive.**
Future: on board.

The bell has comprehensive control and diagnostic options already integrated, so you can be sure you're getting the most out of your lighting.

Smart-Interface complies with the Zhaga-D4i standard, which means it is standardized according to Zhaga Book 18.

Your benefit? 100 % compatibility of wireless accessories and sensors.
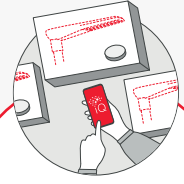

Our **SITECO iQ luminaire electronics** links all the parts of the luminaire into a single network – ECG, LED module and optics. And offers control and diagnostic options – for maximum comfort.

Auto-Match
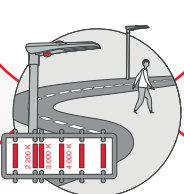Exchange ECGs in no time – without reprogramming.

Desk-Remote
Adjust the luminaire in the workshop without power and without opening the box.
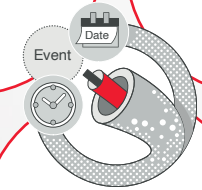
Street-Remote
Configure luminaires from the sidewalk or from a vehicle "on the fly."

Colour-Switch
Get prepared now for future environmental and animal protection guidelines and be able to react flexibly.

Smart-Wire
Dim inexpensively using existing control wires and intelligently switch between dim profiles, light colors and light distributions.

Learn more about the iQ functions here:

Upgrade,
control and monitor
the smart way:
**with SITECO
Connect
Wireless.**

Intelligent, fully connected and 100% flexible!

From simple control to a connected system.

Thanks to Smart-Interface, the Bell has a standardized interface that ensures plug-and-play installation of many compatible radio control systems.

The Smart-Interface not only ensures a secure future, it also enables additional flexibility and greater independence. Cities and municipalities can adopt the control technology gradually – the time of launching or retrofitting can be selected as required.

Upgrades provide 100% flexibility

SITECO Connect 31:
Individual luminaire

Individual luminaires are switched or dimmed, e. g. with a local motion sensor.

Smart-Interface on the inside

SITECO Connect 21:
Several luminaires connected locally

Several luminaires are connected via radio.

The luminaires in the network communicate and synchronize among themselves.

The luminaires are synchronously or continuously activated or dimmed.

Smart-Interface on the inside

Adjust and diagnose on site with a USB transmitter on a laptop

SITECO Connect 1:
Several luminaires connected with remote access

The luminaires are connected via radio.

Settings can be defined from the office via the network, with access and status messages sent automatically.

Existing inventory and workflow systems like luxData by sixData can be used as a master.

Smart-Interface on the inside

Adjust and diagnose using web remote access

Advantages of modern lighting control

Improved safety for people on roads and protection from vandalism

Sustainability through the protection of environmental resources and the animal world

Energy efficiency improvements through dimming according to requirements

Optimized operational management using current diagnostic data and documented systems

Bell
variations

Small Bell

Technical data

Rated luminous flux: up to 3.220 lm

Rated power: 20,1 W

Luminous efficacy: 160,2 lm/W

Rated lifetime: up to 80.000 h (L97/B10)

Recommended light point hight: 3,5 – 5 m

Applications

Service roads, residential areas, collection roads,
parks, town plazas

Light distributions

❶ - ❷ - ❸ (with single and dual luminiare setup)

Optical concept

Zone-faceted reflector, made of synthetic material,
silver-coated, high-luster

Light colors

4.000 K/3.000 K/2.700 K/2.200 K; 1.800 K on request

Color rendering: CRI > 70

Luminous intensitiy classes: G1, G2

Light emission: < 1 % (clear cover and flat glass diffusor) or < 2 %
(cover with frosted glass texture)

Accessories: shielding on the housing side

Luminaire technology

Safety class: SK II

Impact resistance: Large Bell IK08/IK09, small Bell IK07/IK09

Installation

Suspended mounting on mast bracket for mast top 76 mm/60 mm
(small Bell) or 76 ... 89 mm (large Bell)

Mast bracket for single-luminaire setup, dual-luminaire setup or
wall mounting

Large Bell

Technical data

Rated luminous flux: up to 5.180 lm

Rated power: 34,3 W

Luminous efficacy: 151 lm/W

Rated lifetime: up to 80.000 h (L96/B10)
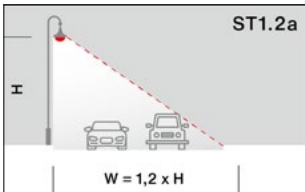
Recommended light point hight: 4 – 6 m

Applications

Service roads, residential areas, collection roads,
parks, town plazas

Light distributions

❶ - ❷ - ❸ (with single and dual luminiare setup)

LED module for Large Bell/Small Bell

Led module for Small Bell:

Rated luminous flux: up to 3.220 lm

LED module for Large Bell:

Rated luminous flux: up to 5.180 lm

LED module / flat glass diffusor for Large Bell:

Rated luminous flux: up to 5.180 lm

Applications

For the energy-efficient refurbishment of existing lighting systems
with Large Bell/Small Bell

Light distributions

❶ - ❷ - ❸ (with single and dual luminiare setup)

Light distributions for the Bell:

ST1.2a – for normal and
wide streets

P1.0a – For narrow streets
and (cycle) paths

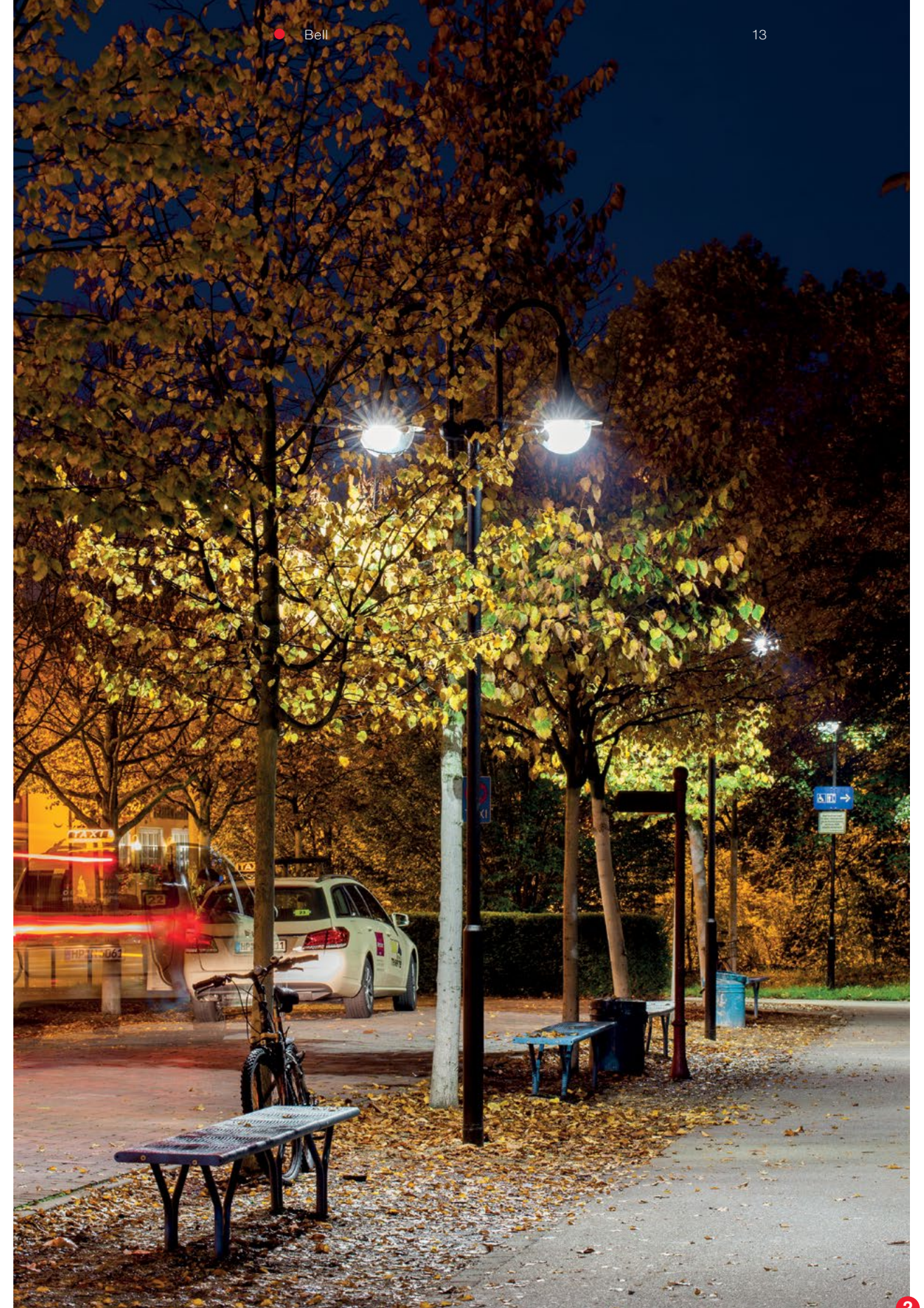**PL1.2s** – for plazas, parks and
pedestrian zones

Esthetics or Efficiency? Both!

Weil am Rhein has been systematically converting its public lighting to LED for years now. The Bell has especially been used for this project in the historical town center. This lets the city retain tradition while creating an attractive design and nighttime ambiance. By converting the entire urban area, Weil am Rhein saves 50 percent energy each year.

1
Project: Weil am Rhein

Product: Bell

2
Project: Bensheim

Product: Bell

1

1 + **2**

Project: Bensheim

Product: Bell

2

Perfect light for the town center.

Bensheim, located in the southern region of Hesse, Germany, converted 400 bell luminaires in its town center. By doing this, the city not only saves 40 percent of electricity costs, but also benefits from significantly improved light quality. The selected 3,000 Kelvin luminaires create a pleasant lighting atmosphere that has met with broad approval among residents.

Project: Bensheim

Product: Bell

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