

Types,
Data sheets,
Configuration –
all at a glance:

Bell



siteco

Bell

Classic design with a future.

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 retains its traditional design with strong recognition force. After all, it has already been adorning countless city centers, historical town plazas and promenades. 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 – light that simply never goes out of fashion.

- **Old creates new**

The LED gear tray and the new diffuser come preassembled, so the exchange takes just a few minutes – thanks to the twist lock, no time at all really.

- **Thoroughly efficient**

gear tray, control electronics, thermal management, light distribution: All components are perfectly matched in the LED module for the Bell. For maximum performance and efficiency.

- **Classic and yet future oriented**

The design remains and yet the future becomes possible. The latest generation of the Bell is Smart City Ready, offering modern lighting control and wireless connectivity thanks to Smart Interface.





Smart
Interface
on the inside

✓ **Saves time and money**

- Convenient, quick conversion of existing systems
- Strong energy and cost savings potential thanks to ideal system performance

✓ **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 and 100 % recyclable materials
- 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

Modular thinking.

The bell shape has been a familiar sight in many towns and communities for decades. And nothing about that has to change: After all, 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.



Details of the Bell

1

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.

2

Luminaire housing

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

3

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.



SITECO urban and park luminaires ...

... invite.

People like being in places where it is pleasant. Decorative light creates atmosphere and ensures people feel good.

... highlight.

Decorative solutions style outdoor spaces day and night. They shine and illuminate – for example with coordinated light colors as well, depending on where they are used.

More than light.

Solutions such as the Bell do not just simply illuminate a town or city. Decorative light is an elementary part of a town or city – day and night. Like purely technical solutions, it promotes traffic safety and enables energy-saving operation that factors in all aspects of environmental protection. And yet it can do so much more at the same time. Urban lighting with high esthetic aspirations gives a town or city atmosphere and the unmistakable character of that lighting leaves its mark.

My town or city. My light. SITECO solutions for urban spaces.

**... link
and structure.**

SITECO's urban lighting solutions enable consistent cityscapes to be conceptually designed. Or they intentionally style certain urban zones, for example historical town centers.

**... act as a
design feature.**

Featuring styling that contrasts, urban luminaires provide esthetic accentuation in cityscapes, on request in combination with self-designed masts.

**... provide
orientation.**

Decorative solutions do not take a back seat at night. They clearly indicate what directions streets and roads take and function as reference points.

Bell variations



Small Bell

Technical data

Rated luminous flux: from 1,450 to 1,750 lm

Rated power 13.2 W

Luminous efficacy: up to 132 lm / W

Rated lifetime: up to 80,000 h (L97 / B10)

Recommended light point height: 3.5–5 m

Applications

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

Light distribution

1 with single luminaire setup **2** with dual luminaire setup

Applies to all Bell versions:

Optical concept

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

Light colors

4,000 K, 3,000 K, 2,200 K on request

Color rendering: CRI > 70

Luminous intensity classes: G1, G2

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

Accessories: shielding on the housing side

Luminaire technology

Safety class: SK II

Impact resistance: Large Bell IK08, 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: from 2,740 to 3,380 lm

Rated output: up to 23.5 W

Luminous efficacy: up to 144 lm / W

Rated lifetime: up to 80,000 h (L96/B10)

Recommended light point height: 4 – 6 m

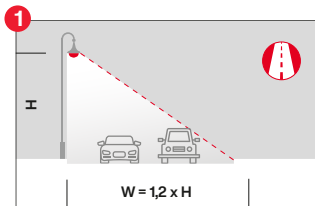
Applications

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

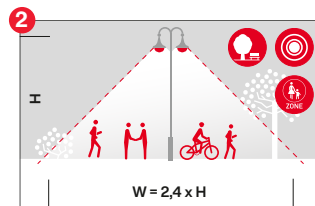
Light distribution

1 with single luminaire setup 2 with dual luminaire setup

Light distribution for the Bell:



ST1.2a – for normal and wide streets



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



LED module for large Bell / small Bell

LED module for small Bell:

Rated luminous flux: from 1,450 to 1,750 lm

LED module for large Bell:

Rated luminous flux: from 2,740 to 3,380 lm

Applications

For the energy-efficient refurbishment of existing lighting systems with large Bell / small Bell

Light distribution

1 with single luminaire setup 2 with dual luminaire setup

Benefits provided by modern lighting control systems



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

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



Get going quickly with SITECO Connect

From simple control to a connected system.

There is a good reason why people refer to “city lights” when describing the special attraction of urban spaces. SITECO solutions makes cities and communities even more livable. Thanks to efficient, connected and sustainable lighting solutions.

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.

SITECO Connect 37



SITECO Connect 27



SITECO Connect 17



100 %
Flexibility thanks to upgrades

Start off simply, upgrade flexibly.

Upgrades provide 100 % flexibility

SITECO Connect 31: Individual luminaires

Individual luminaires are activated or dimmed with a local control system, e.g., according to daylight and time.



SITECO Connect 21: Several luminaires connected locally

Several luminaires are connected via radio.

The luminaires in the network communicate and synchronize with one another.

The luminaires are synchronously or continuously activated or dimmed.



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

SITECO Connect 11: Several luminaires connected with remote access

The luminaires are connected via radio.

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

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



Collimate and diagnose using web remote access

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.



Project: Weil am Rhein

Product: Bell



2

2

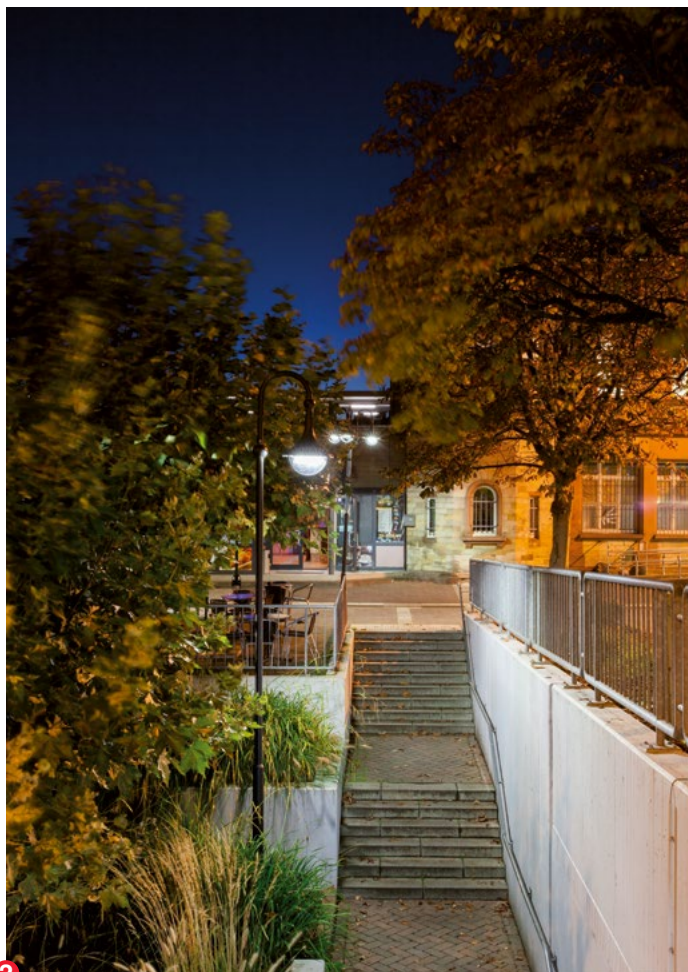
Project: Bensheim, Product: Bell



1 + 2

Project: Bensheim

Product: Glocke



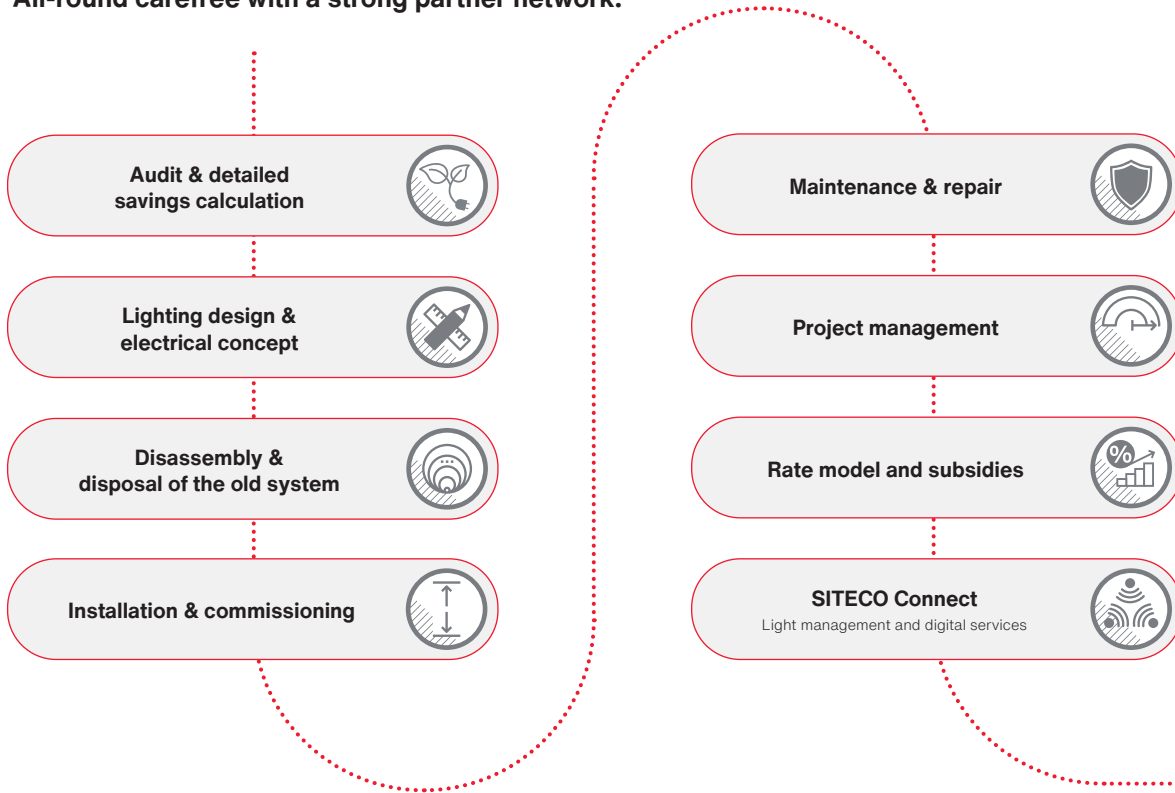
Perfect light for the town center.

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.



SITECO Services

All-round carefree with a strong partner network.



With our service model, you get turnkey solutions from a single source – from planning and installation to maintenance and financing. The choice is yours: from pure lighting to the “all-round carefree package”.

SITECO is your planning and development partner for every lighting solution.

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