

Industrial lighting fixtures



Ultra-high
energy saving
professional range

Beghelli

An ageless material for lighting fixtures of the future

Steel has accompanied the technological development of civilisation owing to its high resistance to pressure, high temperatures, atmospheric agents and corrosive agents. Few other materials can be forged into the most diverse forms without losing their distinctively high resistance to external stress. Beghelli has chosen this material to forge the lighting fixture of the future, without compromising on the product's lifespan. Thanks to new steel processing technologies, the finished product is as lightweight as traditional plastic canopy lights. Moreover, thanks to Acciaio Beghelli's mechanical solutions, the product is extremely quick to install while its performance ranks among the best of its category, in terms of both lighting features and extremely low energy consumption.

An endlessly recyclable material

Steel is a "green" material, in other words, it is entirely recyclable. Any steel product, once it reaches its end-of-life, can be reused a countless number of times, as evidenced by the 300 million tons of steel recycled annually - equivalent to 35% of the world production - which make this material the most recycled in the world. The recyclability of steel constitutes one of the best environmental prerogatives of the steel industry, given that this sector's production cycle ranks among the nearest to the "sustainable development" concept. The development of steel processing compatibly with the environment is feasible thanks to the complete recyclability inherent to steel products, to the high reuse and recovery rate of it by-products and compliance with the environmental regulations.





Ultra-high energy saving professional range

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ACCIAIO[®] Beghelli



Acciaio Tio Otto

Industrial and tertiary sector lighting

1x18, 1x36, 1x58 W

2x18, 2x36, 2x58 W



Acciaio Tio Cinque

Industrial and tertiary sector lighting

1x28, 1x49, 1x54, 1x80 W

2x28, 2x49, 2x54, 2x80 W



Acciaio Quattro

Industrial lighting

4x36, 4x58, 4x49, 4x80 W

Energy saving, quick assembly and sturdiness

Acciaio Quattro PL

Industrial lighting for large areas

4x55 W



Acciaio LED

Emergency lighting

8, 24 W



Acciaio F-Light

Outdoor lighting

2x36, 2x55 W

Acciaio Beghelli is the ideal solution whenever high-tech products are required for heavy-duty applications. The steel body attached to the lens and the die-cast aluminium end caps are highly resistant to both chemical agents and pouring rain.

Regarding industrial applications, the TiCinque and TiOtto versions are ideally suited for installation in environments with explosive atmosphere as a result of gas-related alterations or combustible dust particles suspended in the air (as per the ATEX Directive 94/9/EC).

Sturdiness and durability: a construction approach

AN IP66 FIXTURE RESISTANT TO THE MOST AGGRESSIVE AGENTS

The lamp compartment can be accessed by removing the end cap, therefore maintenance operations are greatly simplified while the structure preserves maximum sturdiness and the IP66 protection rating over time.

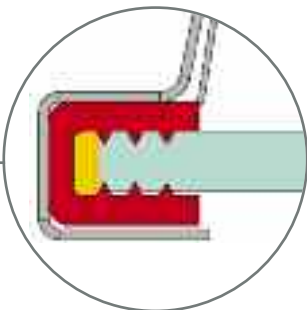


**CONFORMITY TO ATEX DIRECTIVE 94/9/EC
FOR ZONES 02 AND 22
with optional end cap on 1X and 2X
versions for both TiCinque and TiOtto.**

Steel body
extremely resistant
to aggressive chemical agents

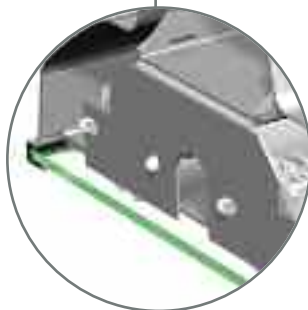
Tempered glass screen
for sturdiness
and maximum transparency over time

High-reflectivity
polished aluminium reflector
for high luminous efficiency



**Glass with crimped silicone gasket
guaranteeing protection rating**

IP66



**Steel body
with incorporated glass**



**Die-cast aluminium end caps
with stamped silicone gasket**

Four times quicker installation time coupled with rapid maintenance

QUICK ASSEMBLY STAGES, SAFETY EXPLAINED

The Acciaio Beghelli fixture is designed to facilitate all phases of installation; each component is studied down to the smallest detail to ensure maximum sturdiness and reduce the time required for preparing the fixture prior to installation:

- The fixture does not contain any type of accessory – everything required for standard installation is already mounted on the product.
- The fluorescent tubes are already mounted on the fixture and, thanks to the sliding compartment that houses the wiring, just a few seconds are required to complete installation.
- The lens is attached to the body therefore no closing clamps are required. The only opening consists of the die-cast aluminium end cap with central fixing screw.
- The IP66 protection rating is guaranteed by the drastic reduction in the fixture's openings: the only access is protected by a silicone gasket inserted into the end cap groove.
- Thanks to the ATEX-compliant end cap, the product conforms to ATEX requirements and can be used in Zones 02 and 22.
- The harmonic steel fixing brackets are installed separately from the fixture for easy and quick positioning.



QUICK REPLACEMENT OF THE FLUORESCENT TUBES

The fixture is supplied with the fluorescent tubes already mounted (except for the ACCIAIO T8 version). These can be replaced by removing the end caps and inserting the tubes lengthwise using the self-aligning device for proper positioning. The end cap can be opened in barely a few seconds by loosening a single fixing screw.



ELECTRICAL WIRING

The quick-extraction compartment ensures easy access to the electronics assembly and terminal board, which is suitably positioned for rapid wiring-up. The sliding compartment slides back into place automatically and is secured by the end cap when closing the fixture.



CLOSING THE END CAP

The end cap closes instantly. The self-aligning end cap can be easily repositioned into the housing of the relative silicone gasket that guarantees the IP66 protection rating. The fixing procedure by means of the central screw takes only a few seconds.

SNAP-ON INSTALLATION

The fixture's fixing brackets are another pivotal element ensuring quick installation and maintenance. The brackets are installed separately from the fixture, which then clips onto the pre-mounted brackets.



SIMPLIFIED MAINTENANCE WITH THE TPS

All maintenance and wiring-up phases are greatly simplified thanks to the fixture's innovative Temporary Positioning System (TPS): once the fixture is unclipped from the fixing brackets, it can be temporarily rotated through 90° to allow for easy access to the removable compartment that houses the fixture's electronics assembly. Once maintenance or wiring-up operations are completed, it is sufficient to reposition the electronics compartment slide, tighten the single fixing screw for the self-centring end cap and clip on the top section of the fixture (that acts as a guide) into the appropriate quick-fix brackets.

INTELLIGENT MAINTENANCE OF A TOP-OF-THE-CATEGORY FIXTURE

The Acciaio Beghelli project confirms the company's philosophy which aims to offer products with top-of-the-category features, also in terms of installation and maintenance. Thanks to the quick replacement of the fluorescent tubes, the installer only needs to intervene on a single screw to remove the end cap and pull out the tube to be replaced, without performing any other operation on the fixture. Intervening on the terminal board is also simplified: after removing the end cap, the only operation required is the removal of the slide housing the electronics for comfortably accessing the terminal board, ballast or any other electronic component.

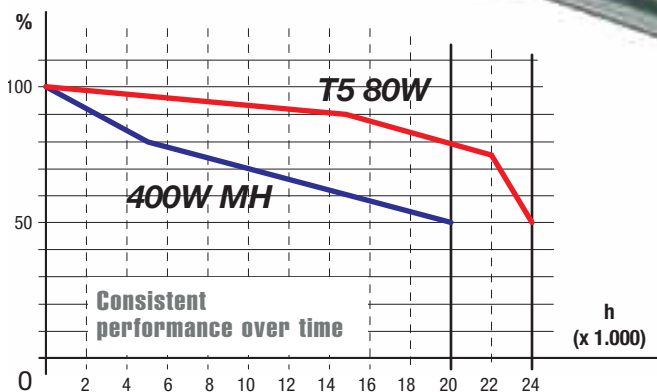
A SYSTEM THAT ELIMINATES THE UNEXPECTED



If the required lighting levels exceed the standard, the distance between the fixtures may hamper normal extraction of the tubes. In this case, it is sufficient to unlock the fixture's quick-fix bracket on the tube extraction side and then control the movement of the fixture by means of a safety cable, so as to immediately replace the fluorescent tubes.

Acciaio Quattro replaces 250W and 400W industrial reflectors

THE IDEAL SOLUTION FOR MAXIMUM ENERGY SAVING AND CONSISTENT PERFORMANCE OVER TIME

Acciaio Quattro is a particularly characteristic fixture of the Acciaio Beghelli professional range. The product's lighting features make it particularly suitable for replacing traditional HighBay industrial reflectors, so as to improve the overall features of the system from an energy and performance perspective.



| Energy comparison | | indicative values |
|--|---|---|
| Operating conditions Hours of daily operation: 12 No. of days of operation: 286 Energy cost: 0,18 € /kWh |  |  |
| | 400W IM | ACCIAIO 4x80 W |
| Consumption W | 410 | 270 |
| Total annual consumption - kWh | 1.407 | 927 |
| Annual energy saving - kWh | | 480 |
| Annual cost saving - € | | 85 - 34% |

| Performance comparison |
|--|
| VERY HIGH ENERGY SAVING in the short-term and, above all, in the long-term |
| VERY LOW LIGHT DEPRECIATION FACTOR from 0.95 for fluorescent tubes to 0.60 for gas discharge lamps |
| CLEARLY DEFINED AND CONSISTENT COLOUR RENDERING INDEX greater than 80 against 60 for gas discharge lamps |
| INSTANT IGNITION AND IMMEDIATE RE-IGNITION in the event of a blackout or micro-interruptions in the mains supply |
| COMPACT HEIGHT for installation in bridge crane transit areas |

Acciaio Quattro PL replaces 250 W industrial reflectors

THE IDEAL SOLUTION FOR ENERGY SAVING AND CONSISTENT LIGHTING PERFORMANCE

Acciaio QuattroPL is a compact fixture of the Acciaio Beghelli professional range. The product's lighting features make it particularly suitable for replacing traditional 250W HighBay industrial reflectors, so as to improve the overall features of the system from an energy and performance perspective.



| Energy comparison | | indicative values |
|---|----------------|-----------------------|
| Operating conditions Hours of daily operation: 12 No. of days of operation: 286 Energy cost: 0,18 € /kWh | | |
| | 250W IM | ACCIAIO 4x55 W |
| Consumption W | 260 | 170 |
| Total annual consumption - kWh | 892 | 583 |
| Annual energy saving - kWh | | 309 |
| Annual cost saving - € | | 56 - 35% |

| Performance comparison |
|--|
| VERY HIGH ENERGY SAVING in the short-term and, above all, in the long-term |
| VERY LOW LIGHT DEPRECIATION FACTOR from 0.90 for fluorescent tubes to 0.60 for gas discharge lamps |
| CLEARLY DEFINED AND CONSISTENT COLOUR RENDERING INDEX greater than 80 against 60 for gas discharge lamps |
| INSTANT IGNITION AND IMMEDIATE RE-IGNITION in the event of a blackout or micro-interruptions in the mains supply |
| COMPACT HEIGHT for installation in bridge crane transit areas |

Acciaio F-Light replaces 70-150 W outdoor floodlights



THE IDEAL SOLUTION FOR ENERGY SAVING AND IMPROVED LIGHTING PERFORMANCE



Acciao F-Light is a highly innovative fixture of the Acciaio Beghelli professional range. The product's lighting features make it particularly suitable for replacing traditional outdoor spotlights, so as to improve the overall features of the system from an energy and performance perspective.



INTEGRATED TWILIGHT SENSOR FOR SIMPLIFYING THE SYSTEM AND OPTIMISING CONSUMPTION

Acciaio F-LIGHT is equipped with an innovative adjustable twilight sensor designed to ensure maximum reliability in all kinds of weather, by directly intervening on the electronic control of the fixture's ballast. The photosensor can be calibrated to two different sensitivity levels and can be rotated through 360° so as to activate the fixture only when variations in the natural light occur, thus avoiding the interference of other light sources.

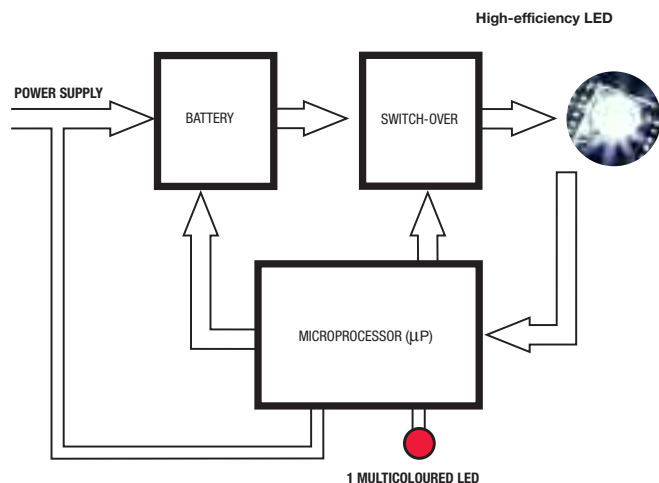
Moreover, local activation of the twilight system allows for significantly simplifying the lighting system while optimising consumption, as the fixtures turn on in a synchronised manner according to each fixture's exposure to light. If the fixture is installed on existing systems, or if connection to a centralised twilight sensor is preferred, the twilight sensor can be deactivated during the wiring-up phase.

| Energy comparison | | indicative values |
|---|---|---|
| Operating conditions Hours of daily operation: 11,5 No. of days of operation: 365 Energy cost: 0,18 € /kWh |  |  |
| | 150W IM | ACCIAIO 2x55 W |
| Consumption W | 170 | 85 |
| Total annual consumption - kWh | 714 | 357 |
| Annual energy saving - kWh | | 357 |
| Annual cost saving - € | | 64 - 50% |

| Performance comparison |
|--|
| VERY HIGH ENERGY SAVING in the short-term and, above all, in the long-term |
| VERY LOW LIGHT DEPRECIATION FACTOR from 0.90 for fluorescent tubes to 0.60 for gas discharge lamps |
| CLEARLY DEFINED AND CONSISTENT COLOUR RENDERING INDEX greater than 80 against 60 for gas discharge lamps |
| INSTANT IGNITION AND IMMEDIATE RE-IGNITION in the event of a blackout or micro-interruptions in the mains supply |
| OPTIMISED INTERVENTION, SIMPLIFIED SYSTEM thanks to the integrated twilight sensor |

Monitoring systems

AutoTest: the integrated check system



SIMPLIFIES THE PROCEDURES OUTLINED IN THE UNI 11222 STANDARD

This system guarantees the monitoring operations to be carried out by the Prevention and Protection Service Manager, in accordance with Italian Legislative Decree no. 81/08 of the Consolidation Act regarding occupational safety.

The lifespan test performs a check on all the lamp's functions over a period of time corresponding to that specified in the single regulations, and takes place every 26 weeks; moreover, an operational test involving the lamp, battery and circuit is carried out every 28 days. The results of the tests are visualised by the multicoloured LED positioned on the fixtures. This feature ensures constant monitoring of the fixture's operation and helps to cut costs for personnel that would otherwise be required for maintenance operations.

ELECTRONICALLY CONTROLLED RECHARGING TO SAVE ENERGY AND DOUBLE BATTERY LIFE

Energy wastage due to the constant recharging of emergency fixtures is often overlooked.

In line with its constant awareness to environmental issues, Beghelli has created a recharging system whereby the battery, after completing a full cycle (12 hours), automatically shifts to a

successive phase that preserves the battery charge and limits the lamp's absorption to less than 1 watt.

This system sensibly reduces energy wastage and limits thermal build-up which leads to battery stress; consequently, battery life almost doubles when compared to conventional circuits.

Logica FM: the radio-based centralised system

LOGICA CT RADIO-BASED SYSTEM (up to 992 fixtures)

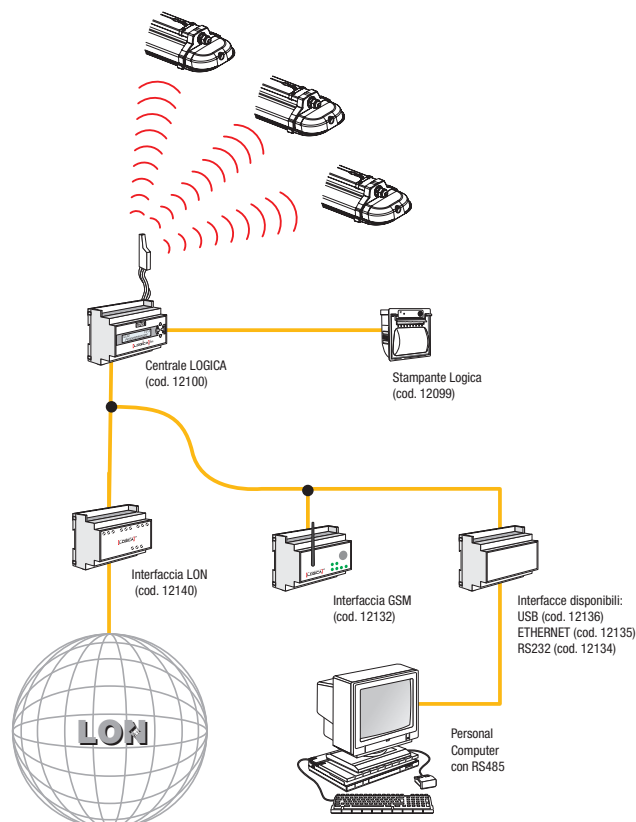
The LOGICA FM control panel manages and controls emergency fixtures of the Logica FM range. In turn, the LOGICA FM control panel can be managed and controlled from a remote or local PC.

LOW-POWER RADIO TRANSMISSION BASED ON SPREAD-SPECTRUM TECHNOLOGY WITH UNLIMITED RADIO CAPACITY

The Logica FM system uses very low-power radio waves so to avoid any type of interference or electromagnetic pollution. The power level involved in radio transmissions is less than one-hundredth of that emitted by a normal cellular telephone.

The signal transmitted by the central unit is received by the first fixture on the "path" and memorised during the central unit start-up phase; each fixture - being equipped with a transceiver and radio amplifier - receives then transmits the signal to the successive fixture in the memorised "path".

All products of this range conform to the regulations outlined in ERC REC 70-03.



for emergency versions

Logica: the multifunctional centralised system

AUTOMATES PROCEDURES OUTLINED IN THE UNI 11222 STANDARD

LOGICA, a versatile and modular control system for emergency fixtures, is designed to ensure compatibility with the local and national regulations regarding use and testing of emergency lighting systems. In particular, **the 11222 standard specifies the procedures for performing routine checks, maintenance, overhaul and testing of emergency fixtures.**



Logica control panel code 12100

- Modular system
- Fixtures that operate in both AutoTest and Centraltest mode
- Programmable lifespan (1 hour / 3 hours)
- Deferrable test execution for part of the system (even / odd)
- Wired (LOGICA) or radio-based connections (LOGICA FM)
- DALI-compatible bus for controlling DALI lighting fixtures (LOGICA)
- Possibility of remote management via PC (GSM, Ethernet, Usb, RS232 interface)
- Possibility of integration with Building Automation
- Centralised configuration operations
- 16 programmable fixture groups
- 16 programmable brightness scenes
- Inverters (power packs) for:
 - Incandescent lamps
 - Halogen lamps with electronic or magnetic transformers
 - Fluorescent tubes with electronic or magnetic ballast

CENTRALISED LOGICA SYSTEM VIA BUS THROUGH THE LOGICA SUPERVISION PANEL (up to 4096 fixtures)

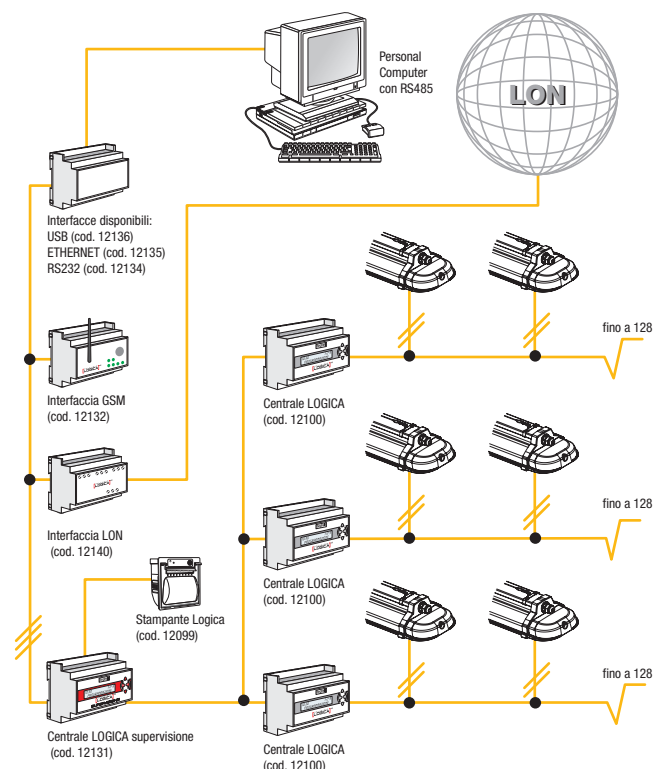
The LOGICA supervision panel can manage up to 32 LOGICA control panels for a total of 4096 emergency lighting fixtures and DALI lighting fixtures. In turn, the LOGICA supervision panel can be controlled and managed from a remote or local PC.

The LOGICA supervision panel adds the following functions to the LOGICA system:

- Centralised programming and management of all the connected Logica control panels
- Centralised printing of reports
- Logbook (the results of operational and lifespan tests are memorised for two years)

LOGICA CT BUS-BASED SYSTEM (up to 128 fixtures)

The LOGICA central unit allows for controlling both emergency fixtures of the Logica range and DALI-type (Digital Addressable Lighting Interface – international standard conforming to the IEC60929 standard) lighting fixtures, up to a maximum of 128 fixtures. As the number of LOGICA central unit that can be connected to a PC is virtually unlimited, management and control functions of countless fixtures can be grouped into a single workstation.



Performance and flexibility for emergency lighting

**AVAILABLE VERSIONS 1X - 2X
PATENTED SYSTEM ***

** patent pending*

LED: THE LIGHT OF THE FUTURE

Acciaio Beghelli takes full advantage of all the benefits LED technology is currently able to offer. The LED implemented is extremely efficient and long-lasting; moreover, the lenticular optical system maximises the amount of light projected onto the ground with the highest uniformity.

EXTENDED BATTERY LIFE

Thanks to the modular system, whereby the battery pack is incorporated into the end caps, greater component cooling is achieved, which sensibly reduces thermal stress and thus leads to improved battery life.

ELECTRONICALLY CONTROLLED RECHARGING TO SAVE ENERGY

The innovative electronic system implemented ensures full recharging in barely 12 hours. Constant monitoring of the battery charge level minimises energy absorption once the full recharging cycle is completed.

INSTANT INTERVENTION FOR MAXIMUM SAFETY

The LED light source instantly guarantees the fixture's rated luminous flux, as opposed to fluorescent lamps that achieve their maximum potential one minute after ignition and are sensitive to the ambient temperature.



NiMH batteries and inverters integrated into the end cap outside the lamp body for improved heat exchange.



lenticular optic with ultra-high luminous efficiency and multicoloured LED status indicator



1 W high-efficiency and long-life LED



HIGH LUX VALUES WITH TWO EMERGENCY HEADS.

Acciaio is a modular system that allows to install two emergency heads on the same fixture in order to obtain average illumination results much higher than what is required by the normatives, thus granting an optimal light uniformity.

How to install LED emergency heads

EASY AND SIMPLE : FOUR STEPS ON TWO SCREWS

The emergency head substitutes the standard head and it is a completely independent fixture that does not need to be electrically wired to the fluorescent main luminary. This makes possible to decide at any time of the installation which units should carry the emergency light. The emergency head incorporates both optics and battery pack.

DESIGN AND INNOVATION

The compact LED module is a total innovation for the market of industrial emergency lighting fixtures. With the emergency heads installed, Acciaio keeps its elegance and style making it suitable for tertiary sector installations where the visual appearance of the fixtures is a major selection criteria.



Standard fixture



Standard head and central screw un-tightening



Installation of the emergency head



Central screw tightening



GENERAL FEATURES

Power* 24 W

Versions Non maintained (SE)

Conformity EN 60598-1, EN 60598-2-2,
EN 60598-2-22, UNI EN 1838,
UNI 11222 DIN 4844-1, ISO 7010

Protection rating IP66

Ambient temp. 0° ÷ +40°C

Autonomy 1h (3h available upon request)

Installation Can be installed on Acciaio T5 and T8,
both in 1X and 2X version

Housing RAL 7035 die cast aluminum,
stainless steel heads screws

Optics Simmetric PMMA lens

LED emergency head

with built in inverter and battery pack

Auxiliary emergency lighting fixture to be used as an alternative to the standard heads on T5 and T8 (1X and 2X) Acciaio fixtures.

The body is made of die-cast aluminum, powder painted in RAL 7035 color and holds a high efficiency LED equipped with a PMMA lens to provide optimal illumination on floor for installation up to 7 meters of height.

The mechanical resistance is excellent (IK09) as well as the resistance to aggressive chemical substances.

Thanks to its IP66 rating, industrial installations, even heavy duty ones, are an ideal application for this fixture.

Emergency lighting control can be stand-alone (AT - self testing) or centralized (LG/LGFM - Logica); the functions and the current status of the emergency head is shown by a multi-color LED.

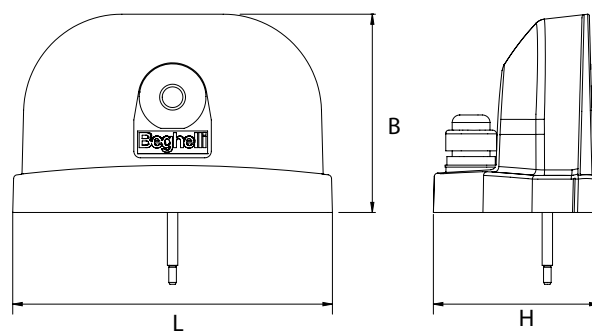
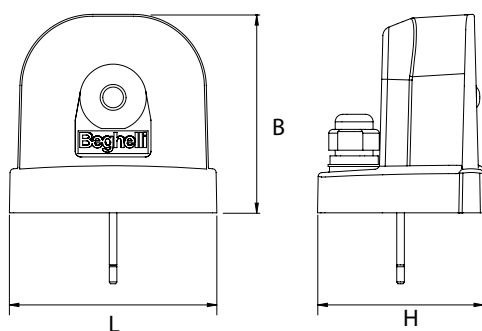
Technical details:

Approval listings on page 39, Symbols on page. 40



| Power* W | • Dimensions (mm) • | | | Compatibility | Weight kg |
|-------------|---------------------|-----|----|------------------------|--------------|
| | L | B | H | | |
| 24 | 110 | 105 | 88 | Acciaio T5/T8 vers. 1x | 0,6 |
| 24 | 169 | 105 | 88 | Acciaio T5/T8 vers. 2x | 0,8 |

* indicative power just for fluorescent fixtures comparison purpose



AT

AutoTest

| Model | W | Order Code | Description | Version | Autonomy | Battery | n° of LED | SE flux* lm | SA flux* lm | Absorption W | Weight kg | Package |
|-------|----|------------|-----------------------------|---------|----------|-----------------|-----------|-------------|-------------|--------------|-----------|---------|
| 1x | 24 | 14810 | TESTATA EMERGENZA LED 1X AT | SE | 1h | NiMH 7.2V 0.6Ah | 1 | 180 | - | 2,2 | 0,6 | 1 |
| 2x | 24 | 14811 | TESTATA EMERGENZA LED 2X AT | SE | 1h | NiMH 7.2V 0.6Ah | 1 | 180 | - | 2,2 | 0,8 | 1 |

LG

Logica

| Model | W | Order Code | Description | Version | Autonomy | Battery | n° of LED | SE flux* lm | SA flux* lm | Absorption W | Weight kg | Package |
|-------|----|------------|-----------------------------|---------|----------|-----------------|-----------|-------------|-------------|--------------|-----------|---------|
| 1x | 24 | 14812 | TESTATA EMERGENZA LED 1X LG | SE | 1h | NiMH 7.2V 0.6Ah | 1 | 180 | - | 2,2 | 0,6 | 1 |
| 2x | 24 | 14813 | TESTATA EMERGENZA LED 2X LG | SE | 1h | NiMH 7.2V 0.6Ah | 1 | 180 | - | 2,2 | 0,8 | 1 |

LGFM

Logica FM

| Model | W | Order Code | Description | Version | Autonomy | Battery | n° of LED | SE flux* (lm) | SA flux* (lm) | Absorption W | Weight kg | Package |
|-------|----|------------|-------------------------------|---------|----------|-----------------|-----------|---------------|---------------|--------------|-----------|---------|
| 1x | 24 | 14814 | TESTATA EMERGENZA LED 1X LGFM | SE | 1h | NiMH 7.2V 0.6Ah | 1 | 180 | - | 2,2 | 0,6 | 1 |
| 2x | 24 | 14815 | TESTATA EMERGENZA LED 2X LGFM | SE | 1h | NiMH 7.2V 0.6Ah | 1 | 180 | - | 2,2 | 0,8 | 1 |

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Watertight lighting fixtures



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Outdoor floodlights



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Emergency lighting



ACCIAIO LED
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The ultra-high performance watertight fixture



**COMPLIANT WITH
 ATEX DIRECTIVE 94/9/EC
 FOR ZONES 02 AND 22**

ATEX APPLICATIONS

Environments with the presence of gas – zone 02

- GROUP II PRODUCT (only installable in environments other than mines)
- CATEGORY: 3G (with presence of gas and normal explosion risk level) PROTECTION METHOD: Ex nA (in conformity to the EN 60079-15 standard; "Non-Sparking": during normal operation, the product does not generate conditions that may trigger off sparks in explosive atmospheres).
- GAS GROUP: IIB
- TEMPERATURE CLASS: T4 (135°C) – Maximum surface temperature of the main components with an ambient temperature of 40°C.

Environments with the presence of dust – zone 22

- GROUP II PRODUCT (only installable in environments other than mines)
- CATEGORY: 3D (with DUST and normal explosion risk level)
- PROTECTION METHOD: Ex tD (in conformity to the EN 61241-1 standard. The electrical appliances are protected by an IP66-compliant casing that prevents dust layers or dust clouds from sparking off).
- IP METHOD and ZONE: A22 tested in accordance with method A as specified in the EN 61241-1 standard and, therefore, suitable for installation in zone 22.
- TEMPERATURE CLASS: T5 (100°C) – Maximum surface temperature of the main components with an ambient temperature of 40°C.

GENERAL FEATURES

Power 1x18, 1x36, 1x58, 2x18, 2x36, 2x58

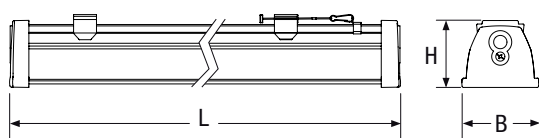
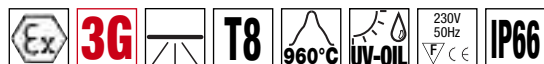
Protection rating IP66

Ambient temp. -20° C ÷ +40° C

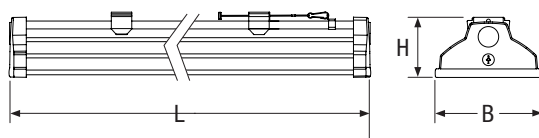
Versions Pendant, busbar, ceiling-mounted,
wall-mounted with adjustable bracket

Reflector Polished, symmetrical

Control gear Electronic



1x fixture



2x fixture

| ATEX ACCESSORIES - to be ordered separately, essential for conformity to Directive 94/9/EC | | |
|--|------------------------------------|-----------|
| Order Code | Description | Packaging |
| 15013 | 1X END CAP+ATEX PG13.5 CABLE GLAND | 1 |
| 15014 | 2X END CAP+ATEX PG13.5 CABLE GLAND | 1 |

| ACCESSORIES - to be ordered separately | | |
|--|----------------------------|-----------|
| Order Code | Description | Packaging |
| 15015 | STAFFE PARETE ACCIAIO 1-2X | 1 |

Acciaio Tiotto

Watertight lighting fixtures

Powder-coated (RAL 7035 Grey) sheet steel body with tempered glass screen fixed to the body by means of a crimped silicone gasket. Powder-coated (RAL 7035 Grey) die-cast aluminium end caps with central screw fixing system and self-centering guides with silicone gasket. High-reflectivity aluminium parabolic reflector with complex parabolic profile for excellent luminous efficiency and improved ground light distribution.

Innovative fluorescent tube front insertion system with appropriate guides for correct positioning of the lamps. Rapid-extraction terminal board compartment to facilitate wiring-up operations.

In the event of installation on busbar and ceiling, appropriate quick-fix brackets are supplied that can be easily removed when performing maintenance activities. Safety is guaranteed by the two cables that suspend the fixture during maintenance activities.

Technical details:

Approval listings on page 39, Symbols on page. 40

| Power W | • Dimensions (mm) • | | | Lamp | Socket | Weight kg |
|------------|---------------------|-----|----|------|--------|--------------|
| L | B | H | | | | |
| 1x18 | 644 | 110 | 88 | T8 | G13 | 2,4 |
| 1x36 | 1254 | 110 | 88 | T8 | G13 | 3,9 |
| 1x58 | 1554 | 110 | 88 | T8 | G13 | 4,6 |
| 2x18 | 644 | 170 | 88 | T8 | G13 | 2,5 |
| 2x36 | 1254 | 170 | 88 | T8 | G13 | 4,5 |
| 2x58 | 1554 | 170 | 88 | T8 | G13 | 5,5 |

| EMERGENCY END CAPS: AT - LG - LGFM | | | to be ordered separately |
|------------------------------------|------------------------------|--|--------------------------|
| Order Code | Description | | Packaging |
| 14810 ** | 1X EM LED AT STEEL END CAP | | 1 |
| 14811 ** | 2X EM LED AT STEEL END CAP | | 1 |
| 14812 ** | 1X EM LED LG STEEL END CAP | | 1 |
| 14813 ** | 2X EM LED LG STEEL END CAP | | 1 |
| 14814 ** | 1X EM LED LGFM STEEL END CAP | | 1 |
| 14815 ** | 2X EM LED LGFM STEEL END CAP | | 1 |

** Devices excluded from the ATEX field of application.

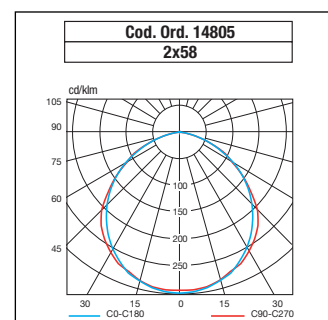
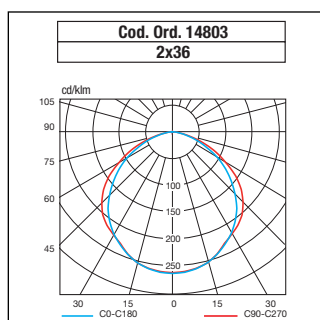
SPECIAL VERSIONS: P - VS

see symbols on page 40

Acciaio Beghelli

lighting

| ELECTRONIC BALLAST | | | Parabolic Reflector |
|--------------------|------------|--|---------------------|
| W | Order Code | | |
| 03 1x18 | 14800 | | Semi-diffuse |
| 03 1x36 | 14802 | | Semi-diffuse |
| 03 1x58 | 14804 | | Semi-diffuse |
| 03 2x18 | 14801 | | Semi-diffuse |
| 03 2x36 | 14803 | | Semi-diffuse |
| 03 2x58 | 14805 | | Semi-diffuse |



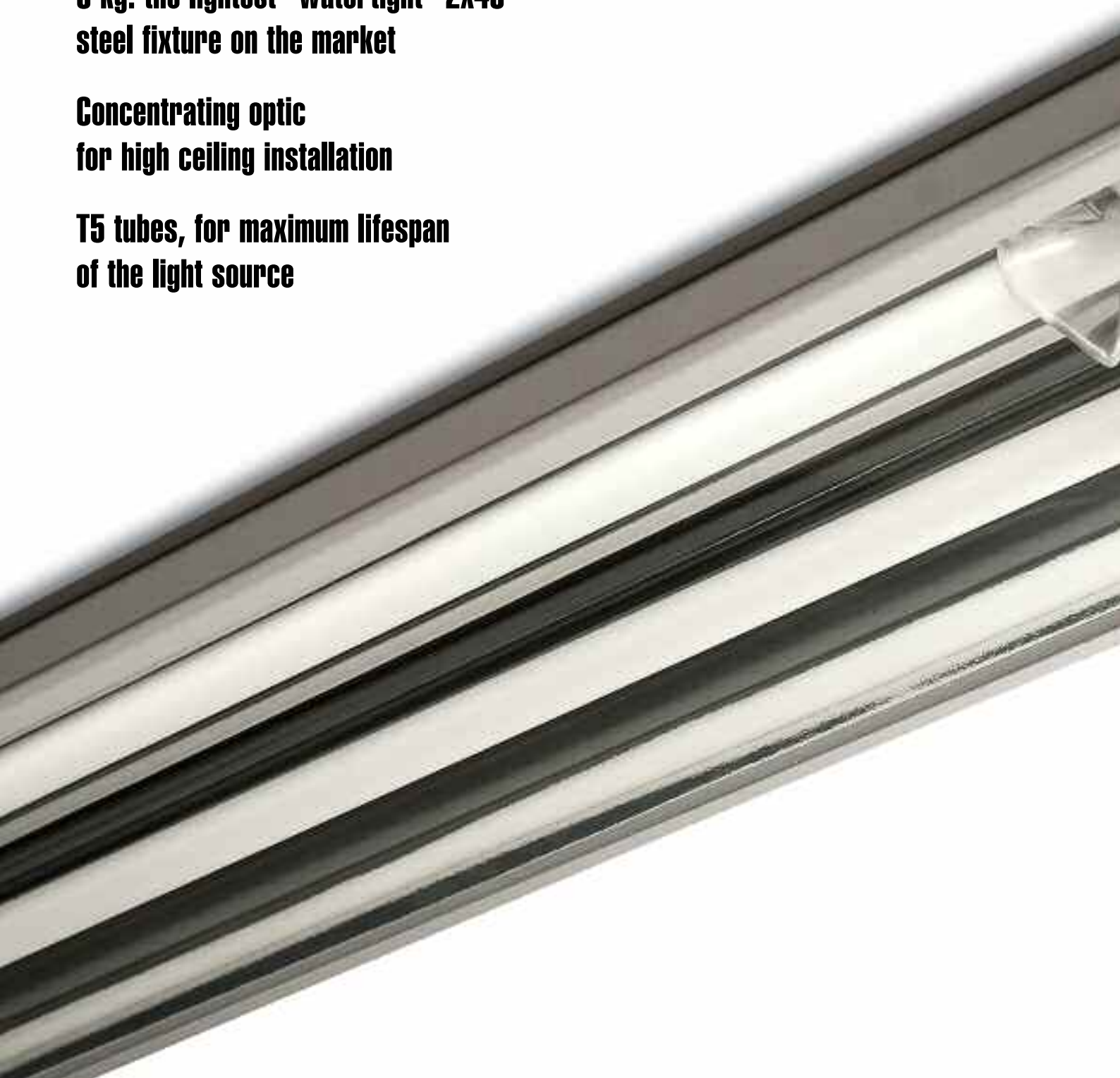
ACCIAIO®
Beghelli

Ticinque

**6 kg: the lightest "watertight" 2x49
steel fixture on the market**

**Concentrating optic
for high ceiling installation**

**T5 tubes, for maximum lifespan
of the light source**



More Light, greater safety, improved Energy Saving



**COMPLIANT WITH
ATEX DIRECTIVE 94/9/EC
FOR ZONES 02 AND 22**

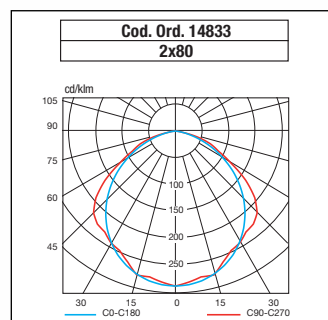
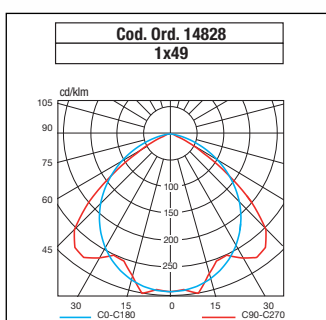
ATEX APPLICATIONS

Environments with the presence of gas – zone 02

- GROUP II PRODUCT (only installable in environments other than mines)
- CATEGORY: 3G (with presence of gas and normal explosion risk level) PROTECTION METHOD: Ex nA (in conformity to the EN 60079-15 standard; "Non-Sparking": during normal operation, the product does not generate conditions that may trigger off sparks in explosive atmospheres).
- GAS GROUP: IIB
- TEMPERATURE CLASS: T4 (135°C) – Maximum surface temperature of the main components with an ambient temperature of 40°C.

Environments with the presence of dust – zone 22

- GROUP II PRODUCT (only installable in environments other than mines)
- CATEGORY: 3D (with DUST and normal explosion risk level)
- PROTECTION METHOD: Ex tD (in conformity to the EN 61241-1 standard. The electrical appliances are protected by an IP66-compliant casing that prevents dust layers or dust clouds from sparking off).
- IP METHOD and ZONE: A22 tested in accordance with method A as specified in the EN 61241-1 standard and, therefore, suitable for installation in zone 22.
- TEMPERATURE CLASS: T5 (100°C) – Maximum surface temperature of the main components with an ambient temperature of 40°C.



ACCIAIO Ticinque: high luminous efficiency

The Acciaio Ticinque optical assembly was studied down to the finest detail. The aspects relevant to its particularly high lighting performance have a two-fold aim, namely to achieve maximum ground illuminance with lower implemented power, and to reduce the number of installed lamps - the area to be illuminated being equal. Acciaio Ticinque achieves both these aims thanks to its luminous efficiency that exceeds 70% and improved efficiency compared to traditional fixtures. The reflectors mounted on all Acciaio Ticinque range fixtures feature top-of-the-category lighting performances: a direct comparison between the Acciaio 2x49 T5 fixture and 2x58 T8 products reveals that the former is more efficient, both with electronic or inductive ballast.

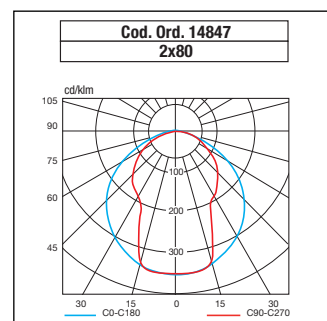
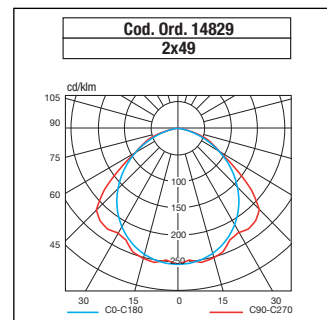
Comparative laboratory tests reveal that ACCIAIO Beghelli T5 2x49 W has higher ground illuminance levels compared to traditional 2x58 W fixtures mounting T8 tubes.

Comparison effected between fixtures with equal power included in the Beghelli 2010 Systems Division catalogue.

Concentrating Version

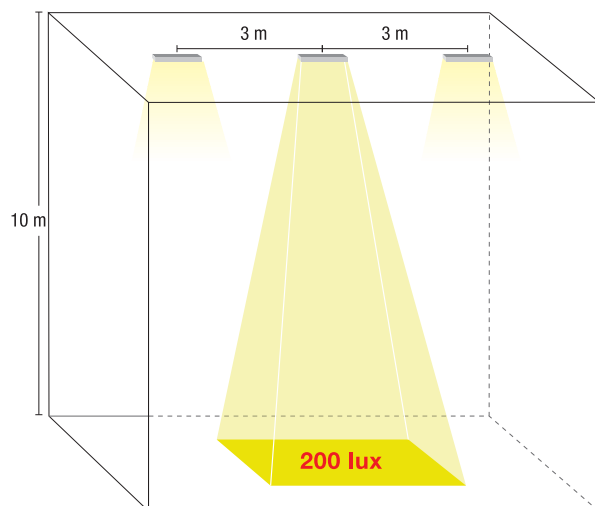
With a mere 16 mm tube diameter, Acciaio Ticinque features a highly efficient optic.

The new reflector - specifically the "concentrating" version - generates a light beam that concentrates the light flow within a specific solid angle, therefore the resulting light is particularly suitable for use in vertically-extending warehouses. The light flow concentrated in a narrow solid angle ensures correct ground illuminance levels without neglecting vertical surface illuminance, thereby significantly fewer fixtures of this type are required compared to fixtures with a wider light beam angle.



A fixture designed for tall installation heights

The new "watertight" fixtures frontier allows for implementing this type of fixture - in the 2x80W version - in previously unheard of applications, which would otherwise require a far more costly industrial reflector, in terms of both purchase cost and energy consumption. Moreover, installation and maintenance operations on Acciaio Ticinque, which occur at great heights, are significantly quicker and simpler.



Application example for Acciaio T5 2x80W concentrating version



Installation in parallel rows along warehouse corridors



GENERAL FEATURES

Power 1x28, 1x49, 1x54, 1x80
2x28, 2x49, 2x54, 2x80

Protection rating IP66

Ambient temp. -20° C ÷ +40°C

Versions pendant, busbar, ceiling-mounted,
wall-mounted with adjustable bracket

Reflector polished, symmetrical, concentrating,
diffuse

Control gear Electronic

| Power W | • Dimensions (mm) • L B H | Lamp | Fitting | Weight kg |
|------------|------------------------------|------|---------|--------------|
| 1x28 | 1203 110 88 | T5 | G5 | 4,0 |
| 1x49 | 1503 110 88 | T5 | G5 | 4,5 |
| 1x54 | 1203 110 88 | T5 | G5 | 4,0 |
| 1x80 | 1503 110 88 | T5 | G5 | 4,5 |
| 2x28 | 1203 170 88 | T5 | G5 | 5,0 |
| 2x49 | 1503 170 88 | T5 | G5 | 6,0 |
| 2x54 | 1203 170 88 | T5 | G5 | 5,0 |
| 2x80 | 1503 170 88 | T5 | G5 | 6,0 |

| ACCESSORIES - to be ordered separately | | |
|--|--------------------------|-----------|
| Order Code | Description | Packaging |
| 15015 | 1-2X STEEL WALL BRACKETS | 1 |

| ATEX ACCESSORIES - to be ordered separately, essential for conformity to Directive 94/9/EC | | |
|--|------------------------------------|-----------|
| Order Code | Description | Packaging |
| 15013 | 1X END CAP+ATEX PG13.5 CABLE GLAND | 1 |
| 15014 | 2X END CAP+ATEX PG13.5 CABLE GLAND | 1 |

| EMERGENCY END CAPS: LGFM ** - LG - AT to be ordered separately | | |
|--|-------------------------------|-----------|
| Order Code | Description | Packaging |
| 14810 ** | TESTATA EMERGENZA LED 1X AT | 1 |
| 14811 ** | TESTATA EMERGENZA LED 2X AT | 1 |
| 14812 ** | TESTATA EMERGENZA LED 1X LG | 1 |
| 14813 ** | TESTATA EMERGENZA LED 2X LG | 1 |
| 14814 ** | TESTATA EMERGENZA LED 1X LGFM | 1 |
| 14815 ** | TESTATA EMERGENZA LED 2X LGFM | 1 |

** Devices excluded from the ATEX field of application.

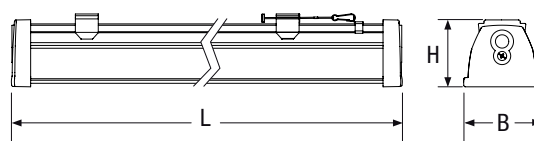
Acciaio Ticinque

Watertight lighting fixtures

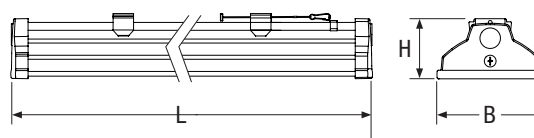
Powder-coated (RAL 7035 Grey) sheet steel body with tempered glass screen fixed to the body by means of a crimped silicone gasket. Powder-coated (RAL 7035 Grey) die-cast aluminium end caps with central screw fixing system and self-aligning guides with silicone gasket. High-reflectivity aluminium parabolic reflector with complex parabolic profile for ultra-high luminous efficiency and improved ground light distribution; also available in the concentrating version for high installation heights. Innovative fluorescent tube front insertion system with appropriate guides for correct positioning of the lamps. Rapid-extraction terminal board compartment to facilitate wiring-up operations.

In the event of installation on busbar and ceiling, appropriate quick-fix brackets are supplied that can be easily removed when performing maintenance activities. Safety is guaranteed by the two cables that suspend the fixture during maintenance activities.

Technical details: Approval listings on page 39, Symbols on page. 40



1x fixture



2x fixture

SPECIAL VERSIONS: P - VS

see symbols on page 40

Acciaio Beghelli

Tubes provided

| | W | ELECTRONIC BALLAST | | Parabolic Reflector |
|----|------|--------------------|--|---------------------|
| | | Order Code | | |
| 03 | 1x28 | 14824 | | Semi-diffuse |
| 03 | 1x49 | 14828 | | Semi-diffuse |
| 03 | 1x49 | 14842 | | Concentrating |
| 03 | 1x54 | 14830 | | Semi-diffuse |
| 03 | 1x80 | 14832 | | Semi-diffuse |
| 03 | 1x80 | 14846 | | Concentrating |
| 03 | 2x28 | 14825 | | Semi-diffuse |
| 03 | 2x49 | 14829 | | Semi-diffuse |
| 03 | 2x49 | 14843 | | Concentrating |
| 03 | 2x54 | 14831 | | Semi-diffuse |
| 03 | 2x80 | 14833 | | Semi-diffuse |
| 03 | 2x80 | 14847 | | Concentrating |

ACCIAIO[®] Beghelli Quattro

Energy saving and immediate re-ignition

THE IDEAL SOLUTION FOR ENERGY SAVING AND CONSISTENT LIGHTING PERFORMANCE

Acciao Quattro is a particularly characteristic fixture of the Acciao Beghelli professional range. The product's lighting features make it highly suitable for replacing traditional HighBay industrial reflectors, so as to improve the overall features of the system from an energy and performance perspective.

REDUCED BULK FOR INSTALLATION NEAR MOVING BRIDGE CRANES

A further advantage of the Acciao Quattro fixture is its compact height. If installed in facilities that mount moving bridge cranes or other moving structures, the product's compact dimensions ensure greater freedom in handling materials inside factories, also at tall heights.



GENERAL FEATURES

Power 4x36, 4x49, 4x58, 4x80

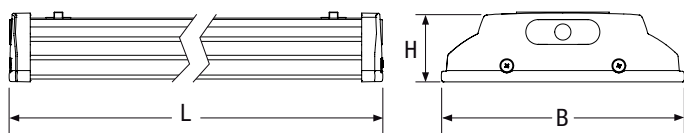
Protection rating IP66

Ambient temp. -20° C ÷ +40°C

Versions pendant, wired bar

Reflector polished, symmetrical, concentrating

Control gear Electronic



Acciaio Quattro

Watertight lighting fixtures

Powder-coated (RAL 7035 Grey) sheet steel body with tempered glass screen fixed to the body by means of a crimped silicone gasket. Powder-coated (RAL 7035 Grey) die-cast aluminium end caps with double-screw fixing system and self-aligning guides with silicone gasket. High-reflectivity aluminium double parabolic reflector with complex parabolic profile for excellent luminous efficiency and improved ground light distribution.

Innovative fluorescent tube front insertion system with appropriate guides for correct positioning of the lamps. Rapid-extraction terminal board compartment to facilitate wiring-up operations.

In the event of installation on busbar and ceiling, appropriate quick-fix brackets are supplied that can be easily removed when performing maintenance activities. Safety is guaranteed by the two cables that suspend the fixture during maintenance activities.

Technical details:

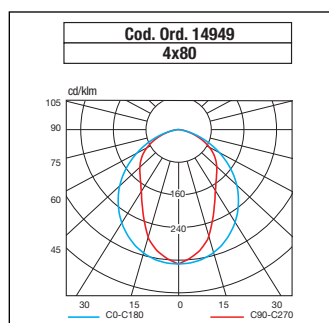
Approval listings on page 39, Symbols on page. 40

| Power W | • Dimensions (mm) • L B H | Lamp | Fitting | Weight kg |
|------------|------------------------------|------|---------|--------------|
| 4x36 | 1258 315 90 | T8 | G13 | 10,0 |
| 4x58 | 1558 315 90 | T8 | G13 | 12,0 |
| 4x49 | 1506 315 90 | T5 | G5 | 10,0 |
| 4x80 | 1506 315 90 | T5 | G5 | 13,0 |

Acciaio Quattro

Tubes provided **T5**

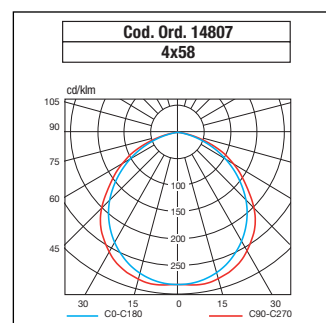
| W | ELECTRONIC BALLAST Order Code | Optic |
|---------|----------------------------------|---------------|
| 03 4x49 | 14848 | Concentrating |
| 03 4x80 | 14849 | Concentrating |



Acciaio Quattro

Tubes provided **T8**

| W | ELECTRONIC BALLAST Order Code |
|---------|----------------------------------|
| 03 4x36 | 14806 |
| 03 4x58 | 14807 |



ACCIAIO[®] Beghelli QuattroPL

More light,
improved
Energy Saving,
reduced bulk

THE IDEAL SOLUTION FOR ENERGY SAVING AND CONSISTENT LIGHTING PERFORMANCE

Acciaio QuattroPL boasts lighting features that make this product particularly suitable for replacing traditional HighBay industrial reflectors, so as to improve the overall features of the system from an energy and performance perspective.

REDUCED BULK FOR INSTALLATION NEAR MOVING BRIDGE CRANES

A further advantage of the Acciaio QuattroPL fixture is its compact height. If installed in facilities that mount moving bridge cranes or other moving structures, the product's compact dimensions ensure greater freedom in handling materials inside factories, also at tall heights.



GENERAL FEATURES

Power 4x55

Protection rating IP66

Versions pendant, busbar

Reflector polished, symmetrical

Control gear Electronic



Acciaio Quattro PL

Watertight lighting fixtures

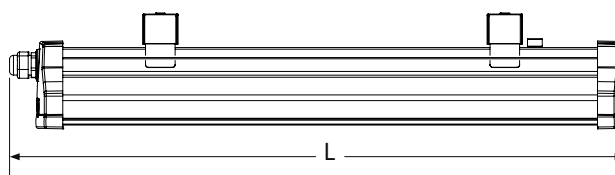
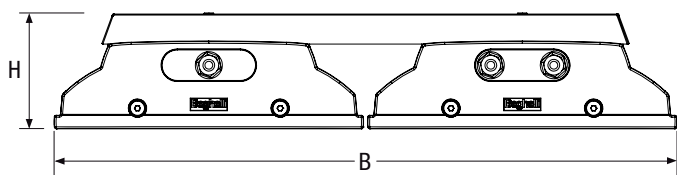
Powder-coated (RAL 7035 Grey) sheet steel body with tempered glass screen fixed to the body by means of a crimped silicone gasket. Powder-coated (RAL 7035 Grey) die-cast aluminium end caps with double-screw fixing system and self-aligning guides with silicone gasket. The product mounts a rear element for improved mechanical resistance that comes with appropriate fixing elements for installation. High-reflectivity aluminium double parabolic reflector with complex parabolic profile for excellent luminous efficiency and improved ground light distribution.

Innovative fluorescent tube front insertion system with appropriate guides for correct positioning of the lamps. Rapid-extraction terminal board compartment to facilitate wiring-up operations.

Technical details:

Approval listings on page 39, Symbols on page. 40

| Power W | • Dimensions (mm) • | | | Lamp | Fitting | Weight kg |
|------------|---------------------|-----|-----|------|---------|--------------|
| L | B | H | | | | |
| 4x55 | 600 | 633 | 117 | PL | 2G11 | 13,5 |



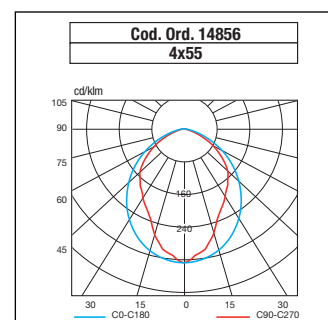
Acciaio Quattro PL

Tubes provided

ELECTRONIC BALLAST

W Order Code

4x55 **14856**



ACCIAIO[®]
Beghelli

F-light

Improved
energy saving,
greater
intervention safety



**Goniometric bracket and integrated
adjustable twilight sensor**

The innovative twilight sensor adjustment system "reads" light in a selective manner thus avoiding accidental activation of the photocell due to unwanted light sources. Moreover, the fixing bracket with goniometric adjustment ensures accurate projection of the light beam for all types of installation.

GENERAL FEATURES

Power 2x36, 2x55

Protection rating IP66

Versions ground, wall-mounted

Reflector metallic with complex parabolic profile

Control gear electronic with automatic turning on and integrated twilight sensor



| Power W | • Dimensions (mm) • | | | Lamp | Fitting | Weight |
|------------|---------------------|-----|----|----------------|---------|--------|
| | L | B | H | | | |
| 2x36 | 495 | 315 | 89 | PL fluorescent | 2G11 | 6,0 |
| 2x55 | 600 | 315 | 89 | PL fluorescent | 2G11 | 7,0 |

Acciaio F-Light

Floodlights

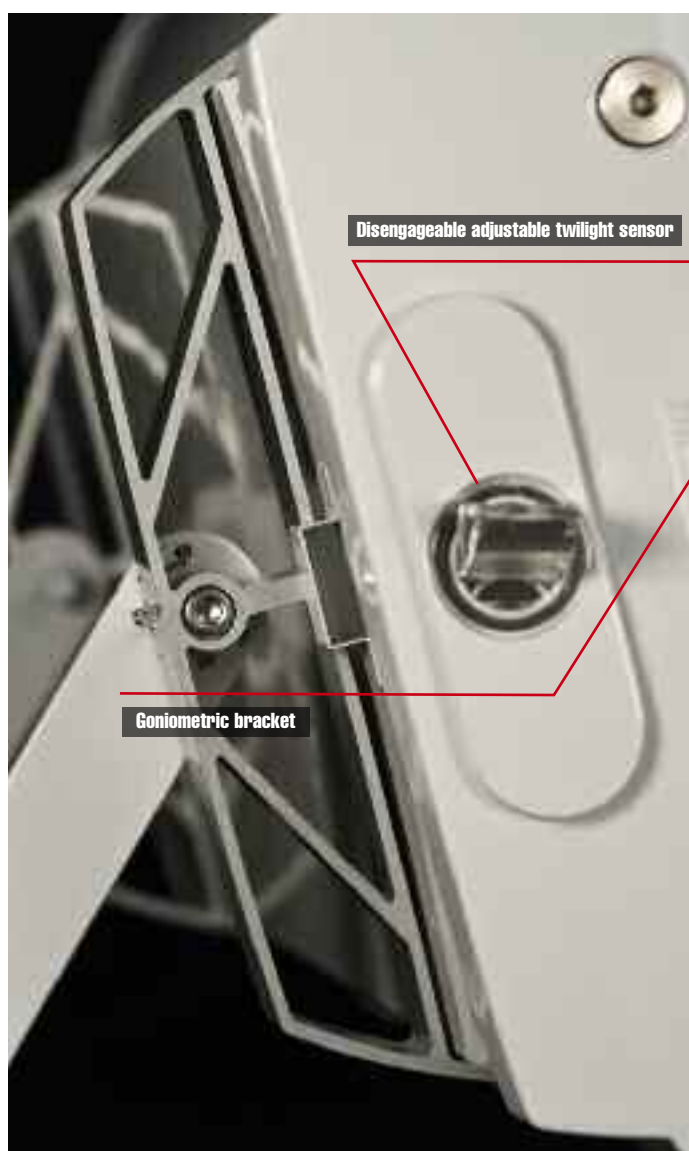
Floodlight for indoors and outdoors with integrated adjustable twilight sensor that, thanks to an appropriate prismatic lens, "reads" light in a unidirectional way to prevent accidental activation of the photocell. The photocell can be set to two different light sensitivity levels and can be easily disengaged during wiring-up operations, if necessary. Powder-coated (RAL 7035 Grey) sheet steel body with tempered glass screen fixed to the body by means of a crimped silicone gasket. Powder-coated (RAL 7035 Grey) die-cast aluminium end caps with double-screw fixing system and self-aligning guides with silicone gasket. Rear bracket with goniometric adjustment for solid and accurate light beam projection.

High-reflectivity aluminium double parabolic reflector with complex parabolic profile for excellent luminous efficiency and improved light distribution.

Innovative fluorescent tube front insertion system with appropriate guides for correct positioning of the lamps. Rapid-extraction terminal board compartment to facilitate wiring-up operations.

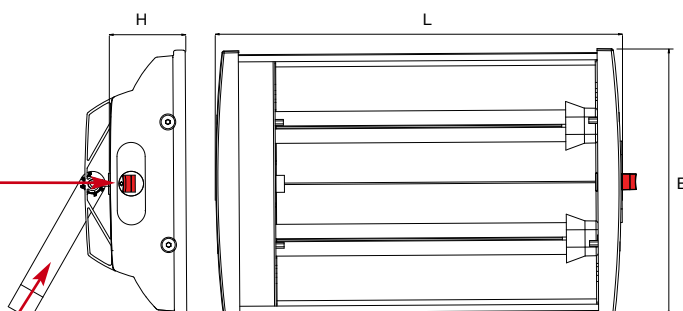
Technical details:

Approval listings on page 39, Symbols on page. 40



Disengageable adjustable twilight sensor

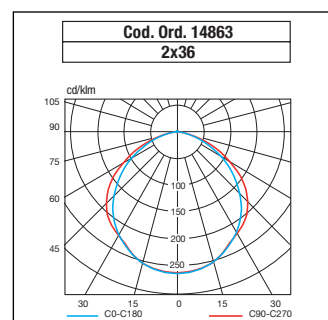
Goniometric bracket



Electronic ballast

Tubes provided

| Order Code | Description | W |
|--------------|----------------------------|------|
| 14863 | PL RE 236W STEEL SPOTLIGHT | 2x36 |
| 14865 | PL RE 255W STEEL SPOTLIGHT | 2x55 |





COMPLIANT WITH
ATEX DIRECTIVE 94/9/EC
FOR ZONES 02 AND 22

A single IP66 product for all applications:
multi emergency duration 1h/2h/3h
multi-version SE-SA-PS

Maximum installation versatility
wall-mounted, recessed,
ceiling-mounted and flag sign,
for emergency or signalling purposes

Double-insulated
die-cast aluminium body
highly resistant to aggressive
chemical agents

Dual-reflection polished
aluminium reflector for improved
illuminance uniformity

Tempered glass screen
for sturdiness and maximum
transparency over time

Double LED strip
of high-efficiency LEDs



Top-class emergency fixture for all applications



The perfect blend of technology and design

The maximum performances for LED emergency illumination in tertiary and industrial environment.

The AcciaioLED simple structure, combined with technical materials like die-cast aluminum and tempered glass, has been thought properly to achieve extreme performances in heavy work conditions, thanks to protection degrees IP66 and IK09.

The simplicity and strength of the product shows his elegance standing out the most performance reflector of his category.



GENERAL FEATURES

Power 8, 24 W

Versions SE, SA, HT, Maintained (SA)/Non-Maintained (SE)/Public show (PS) settable through DIP switch in LG and LGFM versions

Conformity EN 60598-1, EN 60598-2-2, EN 60598-2-22, UNI EN 1838, UNI 11222 DIN 4844-1, ISO 7010
ATEX 94/9/CE for zone 2-22
(installing the proper ATEX kit)

Protection rating IP66

Autonomy 1h or 1h/2h/3h, settable through DIP switch in LG and LGFM versions

Installation recessed, wall-mounted, ceiling-mounted, false-ceiling mounted, flag mounted

Housing die-cast aluminum, RAL 7035, screws in stainless steel

Reflector polished, symmetrical

Acciaio LED

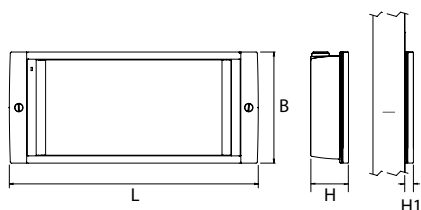
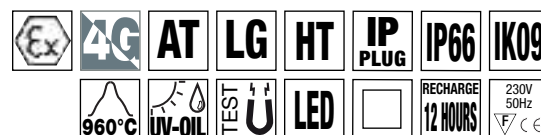
Emergency lighting

Acciaio LED is the answer to the request of high technology products for heavy installations in high risk areas. The die cast aluminum body and the glass screen have an excellent resistance to mechanical (IK09) and chemical stresses. In industrial areas, the product has its ideal location in explosive environment installations, due to gas or flammable dust in the air (ATEX 94/9/CE). The reflector is made of polish aluminum 99,99% anti-iridescent with double reflection optic system in order to achieve an high uniform luminance, the double line of high efficiency LED has a special additional lens to uniform the luminance on the screen. Acciaio Beghelli is also with a revolutionary test system (): a magnetic switch allows to execute the functional test of the fitting just approaching the magnet in order to verify the correct operation of the luminaire.

Acciaio LED, in safety sign version, use an additional opal polycarbonate screen which improve the installation easiness and grant a very high luminance uniformity of the signal (more than 500cd/square meter). The product has also some features which improve the easiness of the installation: included level indicator, fast connection system, through-wiring, double wire input for each terminal, stainless steel locking screws. Moreover other special equipment are available on demand: self-extinguishing polycarbonate screen, laminated glass screen with anti-thief screws.

Technical details:

Approval listings on page 39, Symbols on page. 40







| Power** W | • Dimensions (mm) • | | | | Sight distance (DV) | |
|--------------|---------------------|-----|----|----|---------------------|------|
| | L | B | H | H1 | screen | flag |
| 8 | 392 | 175 | 60 | 13 | 30 m | 30 m |
| 24 | 392 | 175 | 60 | 13 | 30 m | 30 m |

** indicative power just for fluorescent fixtures comparison purpose

| ACCESSORIES - provided | |
|------------------------|--|
| Order Code | Description |
| 15009 | RH/LH LOW SCREEN (version SE AT excluded) |
| - | N. 2 IP PLUG CONNECTORS |

| ATEX ACCESSORIES - to be ordered separately | |
|---|--------------------------------|
| 15009 | RH/LH/LOW SCREEN |
| 15010 | RH/LH FLAG SCREEN |
| 15011 | DH FLAG SCREEN |
| 15012 | FALSE CEILING/RECESSED BRACKET |
| 15016 | BRACKET FOR FLAG INSTALLATION |
| 15017 | ATEX KIT |

AT Autotest

| | W | Order Code | Description | Version | Autonomy | Battery | n° of LED | SE flux* lm | SA flux* lm | Absorption W | Weight kg | Package |
|---|----|--------------|----------------------|---------|----------|------------------|-----------|-------------|-------------|--------------|-----------|---------|
|  | 8 | 15000 | ACC LED 8W SE AT 1N | SE | 1h | NiCd 7.2V 0.75Ah | 24 | 160 | - | 1 | 2,5 | 6 |
|  | 8 | 15001 | ACC LED 8W SA AT 1N | SA | 1h | NiCd 7.2V 0.75Ah | 24 | 160 | 96 | 3,5 | 2,5 | 6 |
|  | 24 | 15002 | ACC LED 24W SE AT 1N | SE | 1h | NiCd 7.2V 0.75Ah | 24 | 224 | - | 1 | 2,5 | 6 |
|  | 24 | 15003 | ACC LED 24W SA AT 1N | SA | 1h | NiCd 7.2V 0.75Ah | 24 | 224 | 135 | 6,5 | 2,5 | 6 |

LG Logica

| | W | Order Code | Description | Version | Autonomy | Battery | n° of LED | SE flux* lm | SA flux* lm | Absorption W | Weight kg | Package |
|--|----|--------------|--------------------------------|----------|----------|------------------|-----------|-------------|-------------|--------------|-----------|---------|
| | 8 | 15004 | ACC LED 8W SE/SA/PS LG 1/2/3N | SE/SA/PS | 1/2/3h | NiCd 7.2V 0.75Ah | 24 | 160/98/54 | 96 | 1/3,5 | 2,5 | 6 |
| | 24 | 15006 | ACC LED 24W SE/SA/PS LG 1/2/3N | SE/SA/PS | 1/2/3h | NiCd 7.2V 0.75Ah | 24 | 224/135/84 | 135 | 1/6,5 | 2,5 | 6 |

LGFM Logica FM

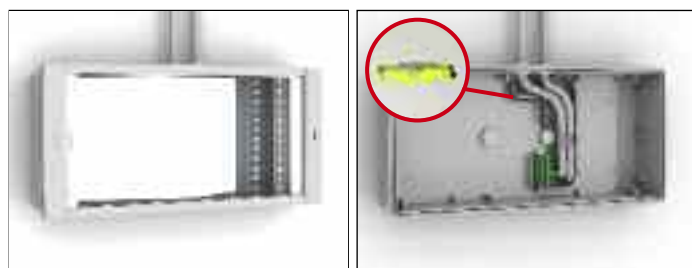
| | W | Order Code | Description | Version | Autonomy | Battery | n° of LED | SE flux* lm | SA flux* lm | Absorption W | Weight kg | Package |
|--|----|--------------|----------------------------------|----------|----------|------------------|-----------|-------------|-------------|--------------|-----------|---------|
| | 8 | 15005 | ACC LED 8W SE/SA/PS LGFM 1/2/3N | SE/SA/PS | 1/2/3h | NiCd 7.2V 0.75Ah | 24 | 160/98/54 | 96 | 2/4,5 | 2,5 | 6 |
| | 24 | 15007 | ACC LED 24W SE/SA/PS LGFM 1/2/3N | SE/SA/PS | 1/2/3h | NiCd 7.2V 0.75Ah | 24 | 224/135/84 | 135 | 2/7,5 | 2,5 | 6 |

HT Powered by the mains (230V 50 Hz AC- 216V DC)

| | W | Order Code | Description | Version | Autonomy | Battery | n° of LED | SE flux* lm | SA flux* lm | Absorption W | Weight kg | Package |
|--|----|--------------|---------------------|---------|----------|---------|-----------|-------------|-------------|--------------|-----------|---------|
| | 8 | 17450 | ACC LED 8W HT IP66 | - | - | - | 24 | - | 160 | 2,5 | 2,5 | 1 |
| | 24 | 17451 | ACC LED 24W HT IP66 | - | - | - | 24 | - | 224 | 5,5 | 2,5 | 1 |

* Minimum warranted flux according EN 60598-2-22

WALL/CEILING INSTALLATION- FAST TERMINAL AND LEVEL INDICATOR



Terminal for cables from 1 to 2,5 mm with two inputs for each terminal

RECESSED WALL INSTALLATION



15012 bracket for recessed installation

to be ordered separately

FLAG CEILING INSTALLATION/FALSE CEILING INSTALLATION

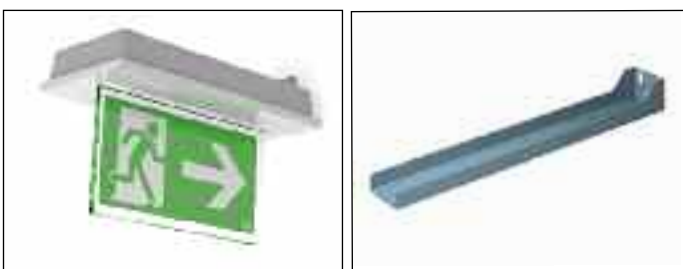


15010 housing+flag screen RH/LH to be ordered separately

15011 housing+flag screen low to be ordered separately

15012 false ceiling/recessed bracket to be ordered separately

WALL FLAG INSTALLATION



15016 bracket for flag installation to be ordered separately

15010 housing+flag screen LH/RH to be ordered separately

15011 housing+flag screen low to be ordered separately

CEILING RECESSED INSTALLATION



Hole dimensions: 378 x 163 mm

15012 false ceiling/recessed bracket

to be ordered separately

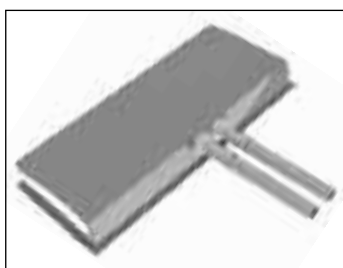
MAGNETIC FIXTURE TEST BUTTON



- REED ampoule and magnetic key

included

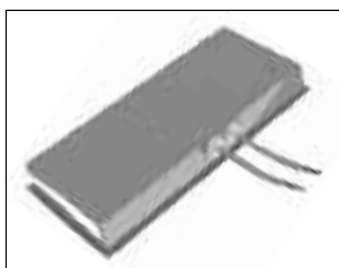
INVISIBLE CONNECTOR



- No.2 invisible connectors

included

IP PLUG FOR WIRING



- No.2 IP PLUG

included

Approval listings



Appliance intended for use in environments with risk of explosion due to the presence of combustible dust or explosive substances in the following zones:

ZONE 02

Environment without explosive gas atmosphere during normal operation, or with the former present in rare occasions or for brief periods.

ZONE 22

Environment where the explosive atmosphere - in the form of a combustible dust cloud – does not exist during normal operation but, if present, persists for a brief period.

Reference standards

94/9/CE

ATEX Directive of the European Parliament and Council dated 23/03/1994

CEI EN 60079-0:

Electrical apparatus for explosive atmospheres due to the presence of gases: Part 0: General rules

CEI EN 60079-15:

Electrical apparatus for explosive atmospheres due to the presence of gases: Part 15: Construction, testing and marking of electrical apparatus with protection mode "n".

CEI EN 61241-0:

Electrical apparatus intended for use in the presence of combustible dust particles: Part 0: General provisions

CEI EN 61241-1:

Electrical apparatus intended for use in the presence of combustible dust particles: Part 1: Protection through "tD" casings.

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CEI EN 61241-1:

Electrical apparatus intended for use in the presence of combustible dust particles: Part 1: Protection through "tD" casings.



European quality mark

Symbols



Products with 4-year extended warranty



Protection Rating relative to knocks to the appliance in conformity to the test procedures (in accordance with EN 50102)



Products with 3-year extended warranty



Fitting equipped of magnetic sensor to execute a functional test. The system provide a REED ampoule inside the product and an included magnet to activate the test



Self-contained emergency fittings



Emergency lighting fittings equipped with battery which grant **1 hour autonomy after 12 hours of recharge**



Self-contained **AutoTest** emergency fittings



Invisible adapter included. It allows to install the product either in tube ducts as in spiral conduct with a diameter between 16 and 20, through a fast connection system that reduce the size of the wired product, speed the installation and grant the IP protection degree of the fitting up to IP66.



Self-contained **Logica** emergency fittings



Self-contained **Logica FM** emergency fittings



Fittings that can stand **to UV radiation and mineral oils**



Direct light lighting fixtures



Emergency fittings supplied at 230V



Indicates the temperature of the incandescent filament (EN 60598-1)



Linear fluorescent lamp (T5, T8)



Appliances installable on normally inflammable surfaces



Protection Rating relative to external factors (in accordance with CEI EN 60598-1)



Appliances with Class II insulation level. Appliances without this symbol are to be regarded as Class I appliances.

SPECIAL VERSIONS: P - VS

Example: to order a light having order code **14824**, the code for the special version with stratified glass is **14824VS**

Suffix to be added to the order code

System description

VS
P

VS Stratified glass
Polycarbonate lens

EMERGENCY END CAPS

Auxiliary emergency end caps combining in a single fixture body traditional lighting and emergency intelligence lighting

AT
LG
LGFM

fixture automatic test system
Remote control and test Logica system
Remote wireless FM radio Logica control and test system



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