

# Visual and Acoustic signalling device



**NORSTAT INC.**



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# Multicolor beacons

## 370 series



- 10 different messages, some of which are simultaneous.
- RGB LEDs light source, **programmable**, **steady**, **flashing** or **speedy flashing** lighting
- Long life and low power consumption
- Available **integrated two-channel sound** version with the possibility of **remote control**
- **Easy to removal** thanks to the special **Click Clack** quick release device



- It allows the match up to **7 colors**: red, yellow, green, white, blue, purple and turquoise. Available in classic **TRICOLOR** and **BICOLOR** versions.
- **High brightness RGB LEDs** light source, double lens with vertical and horizontal triangular groove for a correct diffusion at 360°
- Equipped with a **strong structure**, **easy** and **practical installation**
- Available with **acoustic device** essential to attract the staff's attention.

## 180 series



## 189 series

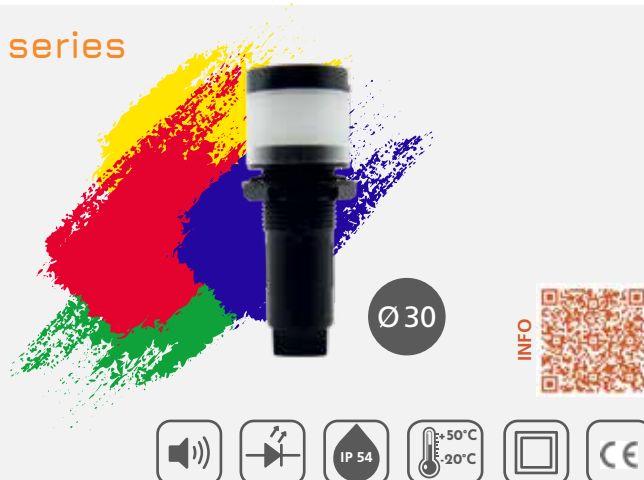


- Particularly suitable for **vertical applications** in **reduced spaces**
- It allows the match up to **7 colors**: red, yellow, green, white, blue, purple and turquoise. Available in **TRICOLOR** and **BICOLOR** versions.
- **High brightness LED RGB** lighting
- Connection by **M12 connector, 5 pins** or by **removal 3 pins terminal block**



## 300 series

- The ideal beacon for **small sizes** machines. **Compact**, **multicolor** and **high brightness** device.
- Available in **green, yellow, red** or **blue, yellow, red** combinations
- All version can be equipped of **audio warning device**
- **Terminal block** for easy connection
- Direct mounting **Ø22 mm holes** or on **bases** with **extension poles**



# Modular stack lights

## 370 series



- The most **complete** stack light in the world, modules of all types a large choice of **acoustic alarms**, **combined modules** and a wide **variety of accessories** to simplify the application
  - **Modular structure with standard diameter of  $\varnothing 70$  mm**
- A **bayonet connection** allows to join the sectors of the stack light and connect them electrically
- The first **stack light** that permitted to **combined up to 7 units** or **acoustic device**. Quality, durability and innovative technical solutions are the **basis of its success**.



## Terminal Units



There are **several models** of terminal units: **standard**, **compact**, with **magnetic seal** or by connector **M12 5 pins** or **8 pins**. Equipped with **cap top cover** when the acoustic device is not used.

## High brightness LEDs module



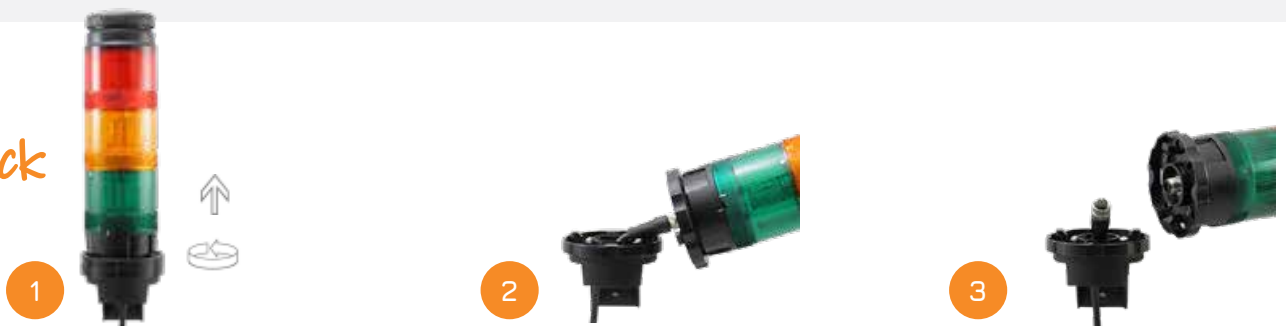
- Brightness higher than any optical detectors through the use of high-performance LEDs which guarantee illumination up to a **maximum of 20 cd**.
- This feature matches the classic qualities of all our LED modules, such as **low power consumption**, **vibration resistance** and **long life**

## Modbus RTU

- Stack light with **Modbus RTU RS 485** communication protocol.
  - **Ideal for reducing** the complexity and cost of electrical wiring.
- Makes it easy to connect** to many PLCs and many SCADA (business supervisory program)



## ClickClack



A simple **rotative motion** permitted **easy mounting without** any **tools**. **Simplifies the removal** of light units after testing. **Reduces the volume** of machines during shipment, **saves** on packaging and transport **costs**. Combined with the **connector** allows a **quick** and **error-free** installation.

# Assembled Stack lights

## 470 series



- Pre-assembled stack light with standard diameter ( Ø 70 mm ) and **reduced height** of modules
- **6 modules maximum**: 5 light modules and 1 audio unit or 6 light modules
- High-powered audible warning device with possibility of **change tone remotely**
- Available in **pre-wired version** or with cable and **M12 connector**.



## 450 series

- **Compact stack light** with reduced diameter (Ø45mm).
- **6 modules maximum**: 5 colors and 1 audio unit or 6 light modules
- Audible warning device with **pulse** or **continuous** sound with possibility of **change tone remotely**.
- Available in **pre-wired version** or with cable and **M12 connector**. A great advantage in the assembly phase



## 300 series



- **Mini stacklight** (Ø 30mm) suitable for confined spaces. **High brightness LEDs** and **small dimensions**
- **Steady light** and **continuous sound**
- Version with **terminal block** for easy connection
- **Direct mounting** on Ø 22 mm holes or on **bases** with **extension poles**



# Modular visual signal device

## 180 series



- The **modular** signalling beacon that has created flexibility in the signallers' world
- A practical **bayonet fitting** simplifies the installation and the maintenance
- 8 different **mounting** types, 5 kinds of **lighting**, 2 **domes** with **different sizes** for each color.
- **Pulse** or **continuous** sound
- **Easily accessible** and **removable** terminal block
- Special mechanical **solutions** for **tampering protection**



## Application examples



Anti-removal block



Click**Click**

# Visual indicators

## Pre-assembled junction boxes

### 180 series

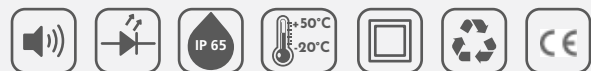


- A system that allows various applications and solutions
- The boxes are supplied with **85-D0** and **85-DS** bases but without domes. Already **drilled** and with **cable gland** included.
- **Complete** the box by selecting one of the **visual indicators available** among all those of the 180 series.

- **Compact and bright** with a linear and harmonious design
- Illumination obtained with **high brightness LEDs** up to 20 cd
- **Pulse** or **continuous** sound
- Easy to install and cable thanks to the **removable terminal block** and **direct fixing** on  $\varnothing 22$  mm hole
- The special mechanical configuration **protects** them **from tampering**

## Panel indicator device

### 183 series



## Visual device for on-machine installation concepts

### 185 series



- **Compact** and **light-intensive**
- Easy to install and cable thanks to **direct fixing** with two screws  $\varnothing 4$  mm
- Equipped with **300 mm output cable**
- **Acoustic** device with **pulse** or **continuous** sound and **single control**.

# Low profile beacons

## 189 series



- Particularly suitable for applications in **confined spaces**
- **High resistance** to mechanical stress and weathering
- **Neutral opal** shade and **colored** light source. Colours available: **Red, yellow, green, blue, white**
- **Flashing** or **steady** lighting with **integrated LEDs**
- Easy to install thanks to the **direct fixing** on **Ø 22 mm hole** and wire with a **removal 3 pins terminal block** or **M12 connector 5 pins**
- A special configuration **protects** it **from tampering**



# Visual panel indicators

## 220 series

- Small size (**Ø 30mm**), featuring an elegant line, **great brightness**
- The possibility of **perpendicular wiring** allows particularly compact installations
- Mounting on **Ø 22 mm holes**, quick and easy installation also possible on **15 mm thick panels**
- **High-efficiency LEDs** lighting, **fixed** or **flashing** light



# Large area visual indicators

## 600 series

They are distinguished by their ability to **communicate remotely**.

These beacons maintain an **extraordinary operation** even in the presence of **shocks and vibrations**

### Steady light



- Dimensions Ø 115 mm x 205 mm
- **Steady light**, **ultra brightness LEDs** bulbs type BA 15d
- Equipped with **Fresnel lens** to optimize the light output
- **Low power consumption**, direct control by PLC or control panel.

### Flashing light

- Dimensions Ø 150 mm x 205 mm
- **Flashing light** with Xenon 10J bulb
- Equipped with **Fresnel lens** to optimize the light output
- **Ultra brightness** lighting, **low power** consumption, **great resistance** to vibrations



### Rotating light



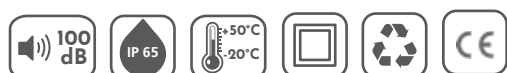
- Dimensions Ø 150 mm x 205 mm
- **Rotating light**, 18 **super bright LEDs** lighting separated by reflective mirrors
- The ideal solution for signalling in **industrial applications**
- **Long-lasting**, **low power consumption** and **continuous** working

# Sounders and audible alarms

## Compact multitone sounders 710 series



- Great sound power **100 dB** with volume control (20 dB)
- Available **from 8 to 28 tones** with frequency between 500 and 2900 Hz
- Possibility to select a **second tone** remotely
- **IP 65**, very high protection



## Industrial audible unit 715 series

- Ideal for **long-lasting** alarms in **industrial applications**
- Great sound power and low frequency: **100dB** with **600 Hz sound frequency** that ensures excellent propagation
- High protection: **IP 65**
- **Low power consumption** and **continuous operation**



## Audible compact units 187 series



- **Great performance**, continuous working and low power consumption
- **Two tones** with possibility of **remote selection**
- **Base-mounted** or on **panel mounting**
- **Ø 22mm** holes

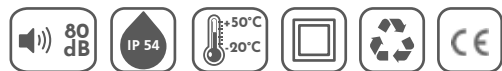


# Visual and audible buzzers for panel mounting

## 230 Series



INFO



### ECX2071

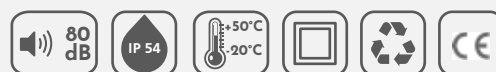
- Buzzer for panel mounting  $\varnothing$  22 mm holes
- Pulse audio and visual signalling
- Sound power 78 dB
- Connection with screw terminals max. 1.5 mm<sup>2</sup>
- Available in red and amber lighting

## Buzzer for panel mounting

### 230 Series

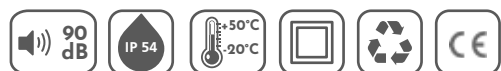
#### ECX2070

- Buzzer for panel mounting  $\varnothing$  22 mm holes
- Pulse audio signalling
- Sound power 78 dB
- Connection with screw terminals max. 1.5 mm<sup>2</sup>



#### ECX28

- Operating voltage from 12 V to 230V
- Buzzer for panel mounting  $\varnothing$  28 mm holes
- Pulse or continuous sound
- Sound power 95 dB
- Connection with screw terminals max. 1.5 mm<sup>2</sup>



#### ECX32

- Buzzer for panel mounting  $\varnothing$  32 mm holes
- Pulse or continuous sound
- Sound power 95 dB
- Connection with screw terminals max. 1.5 mm<sup>2</sup>



INFO



#### ECX55

- Buzzer low frequency and high intensity
- Pulse or continuous sound
- Sound frequency 600 Hz
- Sound power 100 dB
- Connection with wires 250 mm long



# ATEX explosion-proof warning device

Hardy housing composed by **aluminium alloy**, copper-free [high corrosion resistance]

**Sturdy borosilicate glass dome.**

The device can therefore be used both in **gas** and **dust** explosion hazard areas, only **mines** are excluded. **High protection** class: categories **2G** [zone 1 and 2]; **2D** [zone 21 and 22].

## Bicolor beacon



- **BICOLOR** beacon

**TEX10** type: direct mounting in every position

**TEX30** type: fixing on extension pole

- **High brightness LEDs**, **flashing** or **steady** light

- Operating voltage: **24V AC/DC**

- Cable entries: **3/4" NPT** or **M25 x 1.5 mm** [if required]



## Tricolor and Quadricolor beacons

- **QUADRICOLOR** and **TRICOLOR** beacon type **TEX50** fixing on extension pole

- **Replace** totally any stacklights type

- **High brightness LEDs**, **flashing** or **steady** light

- Operating voltage: **24V AC/DC**

- Cable entries: **3/4" NPT** or **M25 x 1.5 mm** [if required]



# ATEX explosion-proof warning device

## Flashing or steady light



- MONOCOLOR beacon

TEX10 type: direct mounting in every position

TEX30 type: fixing on extension pole

- High brightness LEDs, flashing or steady light
- Operating voltage: 24V AC/DC - 115V AC - 230V AC
- Cable entries: 3/4" NPT or M25 x 1.5 mm [if required]



## Steady, flashing or rotating light

- MONOCOLOR beacon

type TEX50: fixing on extension pole

- High brightness LEDs, with steady, flashing or multifunctional lighting (24V only)
- Operating voltage: 24V AC/DC - 115V AC - 230V AC
- Cable entries: 3/4" NPT or M25 x 1.5 mm [if required]



# LEDs bulbs

Life **more than 50.000** working hours. No maintenance or service costs.

**Low power consumption**, simplicity and durability of components. **Perfect performance** even in the presence of **strong vibrations** or **shocks**.



- LEDs bulbs **BA 15d** use a **monochrome light source**, thus defined when it consists of electromagnetic waves having the same wavelength, except **white LEDs**

- **10 LEDs bulbs**: Ø 19 x H41

Operating voltage: 12 V - 24 V - 48 V - 115 V - 230 V

- Always use LED bulbs with lens having the same color of the light source

- Particularly suitable for **stacklights** and **beacons**

- **High brightness** bulb BA 15 d with 360° diffused light and frontally

- Particularly suitable for **stacklights** and **beacons**

- **45 LEDs bulbs**: Ø 20 x H44

Operating voltage: 24 V - 115 V - 230 V

- **45 LEDs bulbs (big)**: Ø 25x H47

Operating voltage: 80 V - 115 V AC

- Always use LED bulbs with lens having the same color of the light source



- **LED BA 9s** bulbs are equipped with high brightness LEDs **low-consumption** and **long-life**

- Particularly suitable for use in indicator lights and **illuminated pushbuttons**

- Operating voltage: 12 V - 24 V - 48 V - 115 V - 230V

- Always use LED bulbs with lens having the same color of the light source

# Machine strip light

## PrismaSignal 490 series

Light indicator for **heavy duty use**.

Particularly suitable where **space is minimal** and **production places are difficult**.



Device with **double function**:

- 1) **Wall-mounted** or **recessed light signal** for classic operator communication
- 2) **Optimal illumination** of the **working point** in each production area and simultaneously **changing state** indicator



Available in **QUADRICOLOR** (green blue, amber and red) and **TRICOLOR** (green, amber and red) versions with **white LEDs** lighting for illumination.

**Easy to install**, also makes it suitable for **complementary** applications.

The **advantages** offered by this device are many, among the most important:

- **Well prevention** for water, oil, coolant, lubricants etc...
- Lighting with **RGB LEDs** and **high-brightness LEDs** for white light
- Optimal illumination thanks to a **planar lighting** with a **beam angle of 100°**
- **Uniform lighting**, flicker-free
- Connection by **M12 connector, 5 pins**



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