



Hydra is a waterproof signalling light which shows the safety conditions of cranes and other machines providing long-distance indication of the operation status with light and, eventually, sound.

# HYDRA

## TKSAC014

Waterproof  
Signalling Light  
by TEKNE  
made in Italy



This document may not be considered as a contract specification.  
Tekne reserves the right to modify the technical characteristics of this equipment without notice.



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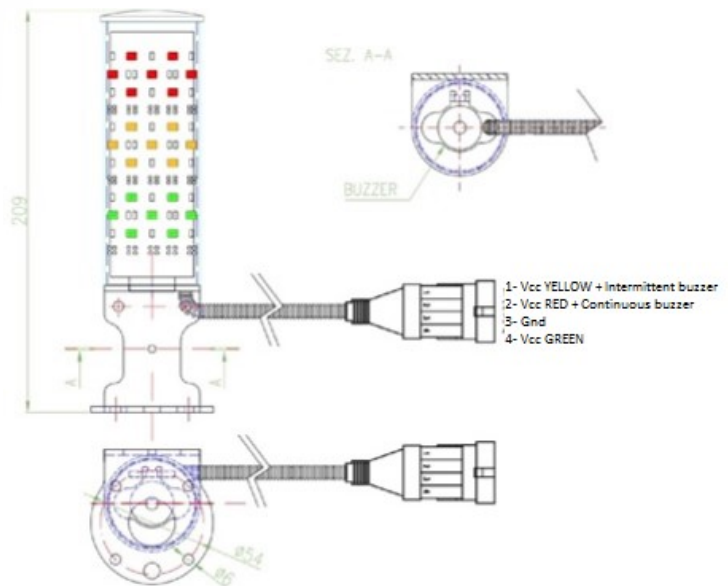
The signalling light is supplied with mounting base for installation.

The figure on the side shows the dimensions of both the column and the base.

The column is available in two versions: with and without buzzer.

In buzzer version it is possible, during the programming phase, to associate each colour with a sound that can be either intermittent (variable intermittence period) or continuous.

The two versions are identified with the following codes.



TKSAC014

Buzzer version

IP67 with water jets falling directly on the top of the column

TBD

No Buzzer Version

IP 65 with water jets against the base of the column

IP67

## Technical data

### Dimensions

Height 209 mm  
Width 54 mm

Pin 1 Yellow colour (10-30 Vdc)  
Pin 2 Red colour (10-30 Vdc)  
Pin 3 GND  
Pin 4 Green colour (10-30 Vdc)

Max current 300 mA per colour



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## Technical Features

- Electronic board with microcontroller logic
- Management from 1 to 3 LED segments through MOSFETs
- Acoustic signal (continuous or intermittent)
- Anti-reverse voltage polarity control device
- Operating Voltage: 10 / 30 Vdc

## Acoustic warning device

- Acoustic element: acoustic signal buzzer
  - \* Intermittent sound : yellow light
  - \* Continuous sound : red light
- 91 dB at 30 cm (12Vdc power supply)
- Mounting by welding on a base

## Light

- Flex" electronic board (PCB).
- Led technology: Power TOPLED® Enhanced optical Power LED (ATON®).
- Led mounting on separate and configurable segments
- Up to four separately controllable segments (colors) can be configured

## LED TECHNOLOGY

### Green Led:

wavelength: 525 nm (true green)  
viewing angle: Lambertian Emitter (120°)  
technology: InGaN  
optical efficiency: 13 lm/W (true green)  
grouping parameter: luminous intensity, wavelength

### Red Led:

wavelength: 633 nm (super-red)  
viewing angle: Lambertian Emitter (120°)  
technology: InGaAlP Thinfilm  
optical efficiency: 47 lm/W (super-red),  
grouping parameter: luminous intensity, wavelength

### Yellow Led:

wavelength: 633 nm  
viewing angle: Lambertian Emitter (120°)  
technology: InGaAlP Thinfilm  
optical efficiency: 47 lm/W  
grouping parameter: luminous intensity, wavelength

(Source: OSRAM Opto Semiconductors GmbH Wernerwerkstrasse 2, D-93049 Regensburg 2006-10-04)

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## Connection:

Automotive type wiring, fireproof and equipped with AMP Super Seal connector, sheath and sealed shell.

## External case:

- Protection in transparent polycarbonate with high diffraction;
- Steel fixing bracket with external cataphoresis for protection against atmospheric agents
- Mounting points can be configured as required.

## Waterproofing:

- Device immersed in 100% transparent resin
- Resin characteristics:
  - Epoxy resin
  - Resin color: Colorless
  - Appearance of the surface: glossy
  - Hardness 25°C: 80 / 85 Shore
  - Flexural strength: 90 / 102 MN/m<sup>2</sup>
  - Tensile strength: 51 / 58 MN/m<sup>2</sup>

(Source: supplier's technical data sheet - issue date April 2007/R&S rev. 00)

Hydra, in no buzzer version, is completely water-proof.

## Fields of application:

- Industrial Applications
- Signalling for machinery in motion (red, amber, green on or flashing)
- Signalling for machinery inoperative (red light or flashing light)

- Signalling for maximum threshold (red colour on or flashing)
- Machinery in alarm (bright red or flashing)
- Machinery in optimal operational condition (bright green color)
- Safe-working limit reached (amber colour on or flashing)



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