Azienda con Sistema di Gestione
per la Qualità Certificato da
DNV UNI EN ISO 9001: 2008

COUNTDOWN DISPLAY 300mm

GENERAL FEATURES

The Countdown device fully realized with solid state technique, is managed by its own microprocessor and is powered directly by the traffic light to which it is connected. The device, mounted inside a 300 mm aspect, is therefore a modular element of the traffic light and it is able to show the duration time of one of the three lights.
The traffic signal time is displayed in 2 digits made by RGB leds. The countdown device can also integrate, as an option, the feature of yellow traffic light signalling, by powering ON 50 Amber leds.

OPERATING MODE

- SELF LEARNING

The device operates in self-learning mode, measuring the duration of the connected traffic light signalling. The device can be set-up to display: the time of Green, the time of Yellow and the time of Red.

The device, at the first switch-on time, will begin its auto-learn function, showing the two central segments ON.

The time duration of the light to be shown, will be measured during its ON status, starting displaying it from the second time that it comes ON and displaying the previously measured value and counting it down to zero.

The effective display duration is anyway measured at every ON status of the signal aspect, during its displaying, and in case of some changes, the new value will be applied to the next display period.

Therefore if some duration change occurs, there will be only an anomalous cycle displayed, where the counting could end before reaching zero (shorter duration) or it can be kept switched off after reaching zero (longer duration).

Via internal jumper selection, the following display mode can be selected:

- Time display of Green-Amber-Red period (the Green time can include or not the final Green flashing part)

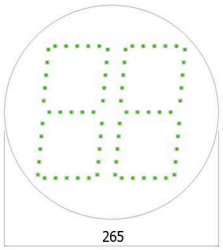
In case of displaying values higher than 99 " for all the exceeding time, the 99 value will be shown at 1 Hz frequency.
In case of Flashing condition on traffic light, the display will operate according to one of the two following modes depending by the set configuration:

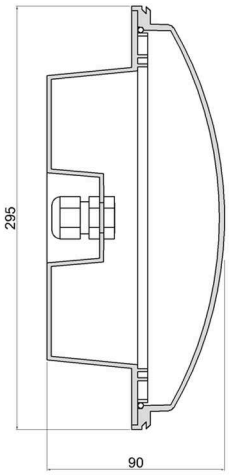
- Display completely Off
- Symbol flashing at a frequency of 1 Hz

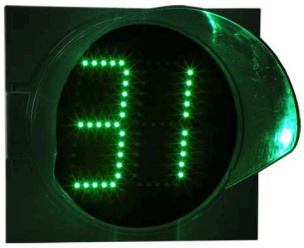
- DINAMIC OPERATION

The device can operate in a dynamic way receiving the information to be displayed from the traffic light controller via a multipoint RS422communication line. The display will stay off by default and it will display and count down the time value, upon receiving a message containing its address and the starting value of the count itself.

COUNTDOWN DISPLAY DIA. 300 mm







DISPLAY

• *Dimensions:*	300mm
• *Led q.ty:*	70 + 70 RGB
• *Character dimension:*	90 x 190mm
• *Light color:*	R:620 G:525 A:575 nm
• *Luminous intensity:*	R:800 G:1600 A:2400 cd/m2
• *Operating temperature:*	- 40°C to + 80°C
• *Consunption:*	>3W < 11W
• *Operating temperature:*	100 Vca to 260 Vca 50Hz

TRAFFIC SIGNAL HOUSING SPP1 300mm

• *Protection degree:*	IP55
• *Material:*	Policarbonate UV resistant
• *Door:*	Rapid clutch spring-lock handle
• *Visor:*	Rapid clutch
• *Color:*	Green/Black/Yellow

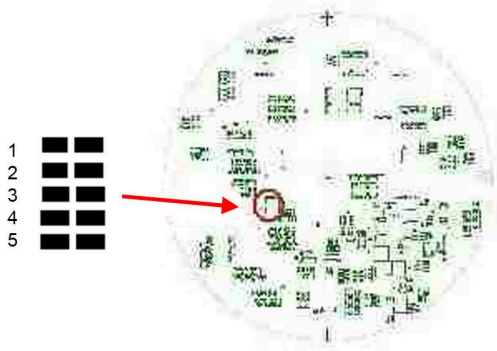
ELECTRICAL CONNECTIONS

The device will be powered directly by the traffic light lamps, so to have 5 wires that will ensure power continuity to the device itself:

Common lamps (CL),
Yellow (A),
Red (R),
Green (G).

CONFIGURATION

The countdown set-up, to performe the different function, following the traffic light sequence existing on the market, can be done on p.c.b. as here belowe shown, or via a proper configuration software furnished with the unit, connecting a PC to the RS422 com port present on the unit.
For more detailes info, see on Unit User Manual.



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