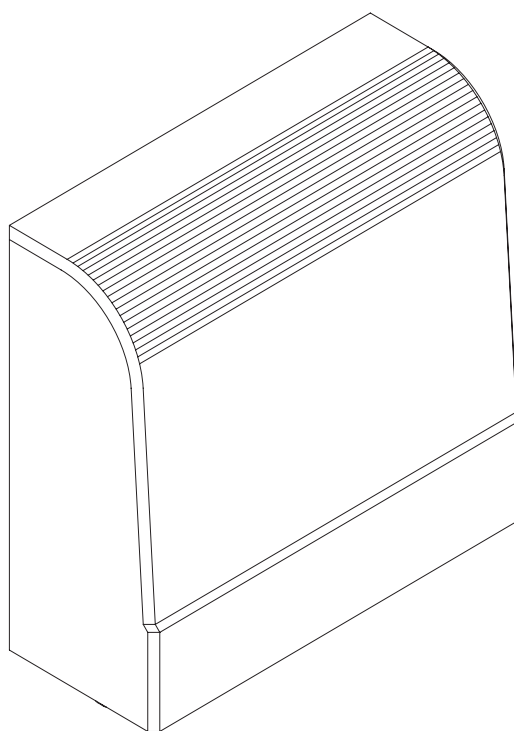


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Rev. 12/05/01

# BENINCA®

CENTRALE SEMAFORICA  
TRAFFIC LIGHT CONTROL UNIT  
*LICHTSIGNALZENTRALE*  
**CENTRALE SÉMAPHORIQUE**  
CENTRAL SEMAFÓRICA  
CENTRALKA SYGNALIZACJI RUCHU DROGOWEGO

## VE.CS



Libro istruzioni  
**Operating instructions**  
*Betriebsanleitung*  
**Livret d'instructions**  
Libro de instrucciones  
**Książeczka z instrukcjami**



UNIONE NAZIONALE COSTRUTTORI  
AUTOMATISMI PER CANCELLI, PORTE,  
SERRANDE ED AFFINI

**Dichiarazione CE di conformità**  
**EC declaration of conformity**  
**EG-Konformitätserklärung**

**Déclaration CE de conformité**  
**Declaracion CE de conformidad**  
**Deklaracja UE o zgodności**

Con la presente dichiariamo che il nostro prodotto  
We hereby declare that our product  
Hiermit erklaren wir, dass unser Produkt  
Nous déclarons par la présente que notre produit  
Por la presente declaramos que nuestro producto  
Niniejszym oświadczamy że nasz produkt

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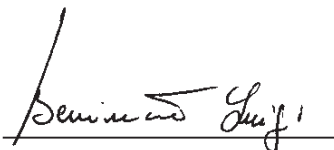
**VE.CS**

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è conforme alle seguenti disposizioni pertinenti:  
complies with the following relevant provisions:  
folgenden einschlagigen Bestimmungen entspricht:  
correspond aux dispositions pertinentes suivantes:  
satisface las disposiciones pertinentes siguientes:  
zgodny jest z poniżej wyszczególnionymi rozporządzeniami:

Direttiva sulla compatibilità elettromagnetica  
(89/336/CCE, 93/68/CEE)  
EMC guidelines (89/336/EEC, 93/68/EEC)  
EMV-Richtlinie (89/336/EWG, 93/68/EWG)  
Directive EMV (89/336/CCE, 93/68/CEE)  
(Compatibilité électromagnétique)  
Reglamento de compatibilidad electromagnética  
(89/336/MCE, 93/68/MCE)  
Wytuczna odnośnie zdolności współdziałania elektromagne-  
tycznego (89/336/EWG, 93/68/EWG)

Direttiva sulla bassa tensione (73/23/CEE, 93/68/CEE)  
Low voltage guidelines (73/23/EEC, 93/68/EEC)  
Tiefe Spannung Richtlinie (73/23/EWG, 93/68/EWG)  
Directive bas voltage (73/23/CEE, 93/68/CEE)  
Reglamento de bajo Voltaje (73/23/MCE, 93/68/MCE)  
Wytuczna odnośnie niskiego napięcia (73/23/EWG,  
93/68/EWG)



Benincà Luigi, Responsabile legale.  
Sandrigo, 05/10/2005.

**BENINCA®**

Automatismi Benincà SpA  
Via Capitello, 45  
36066 Sandrigo (VI)  
ITALIA

## VE.CS traffic light

The VE.CS unit allows to control a traffic light system for the access of vehicles in areas where one single entry is available.

### GENERAL WARNINGS

- a) The wire connections and the operating logic should be in compliance with regulations in force.
- b) The cables featuring different voltage should be physically detached, or adequately insulated by an additional insulation of at least 1 mm.
- c) The cables should be further fastened in proximity to the terminals.
- d) Check all connections before powering the unit.
- e) Check that setting of the Dip-switches are the required ones.
- f) If the unit is powered, the LED POWER should be on; conversely, check the good condition of fuses and the 230 Vac be present between terminals 1 / 2 (keep to 1 Phase/2 Neutral).

### INPUT/OUTPUT FUNCTIONS

Terminal No.	Function	Description
1-2	Power supply	Input 230Vac 50Hz (1-Phase/2-Neutral)
3	L COM	Common, RED/GREEN lights of both traffic lights
4	V-E	Output, GREEN light for EXTERNAL traffic light
5	R-E	Output, RED light for EXTERNAL traffic light
6	V-I	Output, GREEN light for INTERNAL traffic light
7	R-I	Output, RED light for INTERNAL traffic light
8-9	OUT 24 Vac	Output, power supply of accessories, 24Vac/50mA max.
10	GND	Earth of traffic light module
11	+24V	Common to all control inputs
12	FTC-E	Input, external sensor (N.C. contact). Enabled only with DIP SWITCH 1 = ON
13	FTC-I	Input, internal sensor (N.C. contact). Enabled only with DIP SWITCH 1 = ON
14	SCA	Input, enable of output contacts (N.C. contact). Enabled only with DIP SWITCH 1 = ON

### Dip-Switch function

**DSW1 "MODE"** The traffic light module operating mode is selected.  
 Off: Timed operation (The traffic lights switch to red/green at time intervals preset by trimmer).  
 N.B.: input "SCA" with "+24V" should be short-circuited.  
 On: Operation through sensors (photocells, magnetic loops,...)  
 N.B.: The trimmer is not in use. Both outputs go back to "Free" condition if no impulse signal is received by the sensors within 35 seconds from the previous switching.

### Function of Trimmers

It allows to adjust the period of time by which the two traffic lights change colour, with timed operating mode (DSW1= OFF).

Adjustment ranges from 10 seconds minimum to 240 seconds maximum.

The minimum time is obtained with trimmer turned completely anti-clockwise.

## Operation

The traffic lights are normally switched on with green light. When the vehicle activates the external sensor, the internal traffic light switches to red. The internal light waits for the internal sensor to be triggered before switching back to green. In any case, both traffic lights are green if no sensor is triggered within 35 seconds.

Operation is the same for both drive directions.

## WIRE DIAGRAM (Operation with sensors)

