

Technical Data

Lonwork's® Lighting Relay CCLR 20-EC



Lonwork's® Product
Profile 3040/3251



Description

This fully electronic ZERO CROSSING Microprocessor based lighting relay is designed for multiple, commercial and industrial applications. It uses the advanced Echelon network technology with enhanced features and reliable Internet/Intranet communication. The windows based software, such as, Cristal Saturn®, Lonmaker® for Window's and Nano Tool, are excellent choices for control configuration of this fully electronic Lighting Control relay.

Features

- Self Powered
- No moving parts
- Zero Crossing
- Fully silent
- Millions of operations
- Lighting add-on or retrofit protect
- Processor: Echelon 3150
- Memory: 32k Flash (option 24k Sram)
- Topology: FTT-10A or LPT-10
- Operating temperature 0-50 °C
- Inputs: 1 x for standard LV Light Sw. 1 x Local dry contact Switch
- Switch conflict protected

CSA US Approved
(UL 508)



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Technical Data

Lonwork's® Lighting Relay

Object Details

The scene controller object is used to control scenes and fades. Input from an event triggering source e.g. a scene panel trigger the scene. Fade and delay times, and target values are stored in controller memory. Scene setup is done by sending values or storing current values under given scene number. Current values are obtained internally. Stored values are reported using scene configuration feedback output.

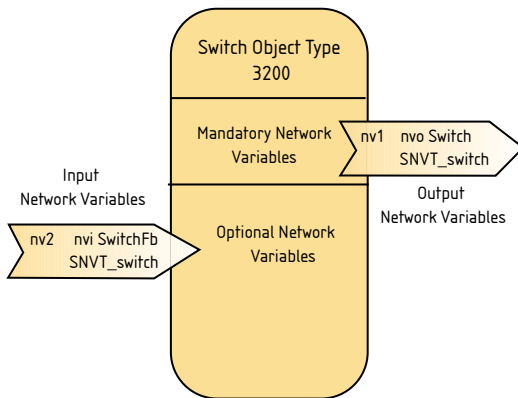
Control Specifications

- Processor Echelon 3150, 5 Mhz
- Memory 24K sram,32K Flash Eprom
- Power requirement Self powered
- Operating environment 0 c to 50 c
- Dimensions 5 inches high x 2.25 inches wide ,weight 200g/.12.20 Ounces
- Topology FTT-10A or LPT-10
- Input for Local On-Off Pulse type Switch and maintained dry contact
- Configuration via programming
- Inputs connections Weco 874-DR-02
- Network connection Plug-in type (1)
- Led status : Yellow for service Pin, Green for program
- Certification CSA/US/UL508

Power Specifications

- Operation Voltage: 120, 208, 240, 277, 347 volt 1 phase
- 43 to 67 Hertz
- Cycle : 50 and 60
- Output: 2 x 10 inches 10 ga copper wire Or Weco
- Type no 983-UD-02 for panel mount
- Lighting load rated for 20A branch circuits.
- Suitable for all types of lighting loads including capacitor corrected HID ballasts
- Mounts on a standard Knockout electrical box

Object details



NV#(M0)*	Name	In/Out	SNVT Type (SNVT Index)	Class	Description
1 (M)	nvo Switch	Out	SNVT_switch (95)	nv	Switch output value
2 (M)	nviSwitchFb	in	SNVT_switch (95)	nv	Switch feedback value

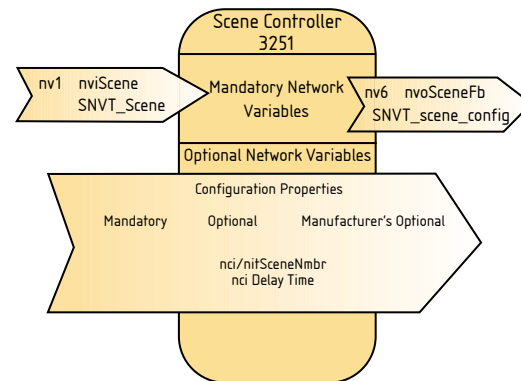
The switch is used to control devices with on/off or continuous (0- 100%) characteristics

* M = Mandatory, 0 = Optional

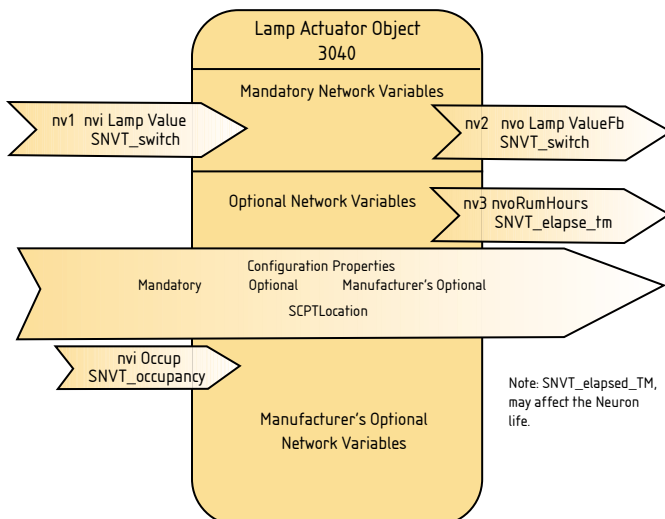
NV#(M0)*	Name	In/Out	SNVT Type (Sntv Index)	Class	Description
1 (M)	nvi Scene	in	SNVT_scene	nv	Scene mode input
6 (M)	nvoSceneFB	Out	SNVT_scene_config	nv	Scene configuration output
5 (0)	nviScenecfg	in	SNVT-Scene_config	nv	Scene configuration input

* M = Mandatory, 0 = Optional

Object details



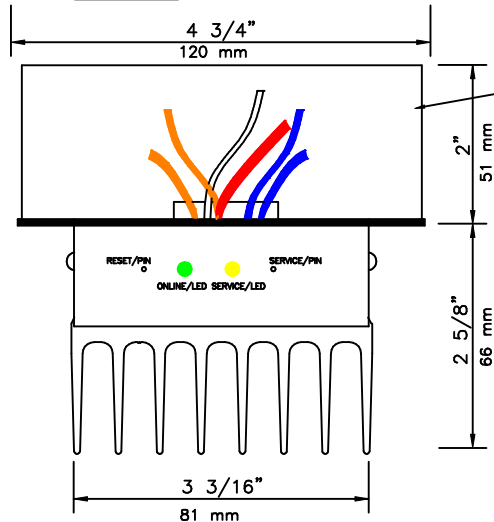
Object details



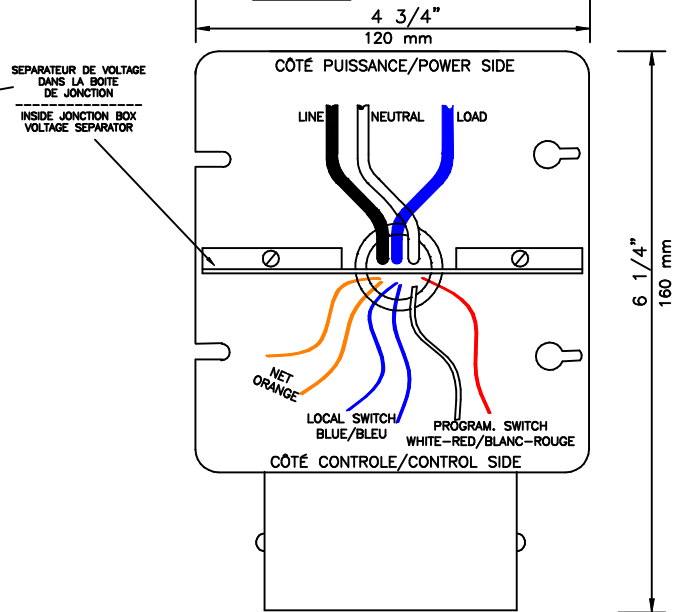
NV#(M0)*	Name	In/Out	SNVT Type (Sntv Index)	Description
1 (M)	nvi Lamp Value	in	SNVT_switch	Lamp input value
2 (M)	nvo Lamp ValueFb	Out	SNVT_switch	Lamp feedback output
3 (0)	nvoRunHours	Out	SNVT_elapsed tm	Running hours of the lamp
(5)	nvi Occup	Out	SNVT_occupancy	Occupancy state
	nvo01 InhibitFb	Out	SNVT_switch	Device override
(0)	nci Default	in	SNVT_switch	Power on valve

* M = Mandatory, 0 = Optional S=Manufacturer specific

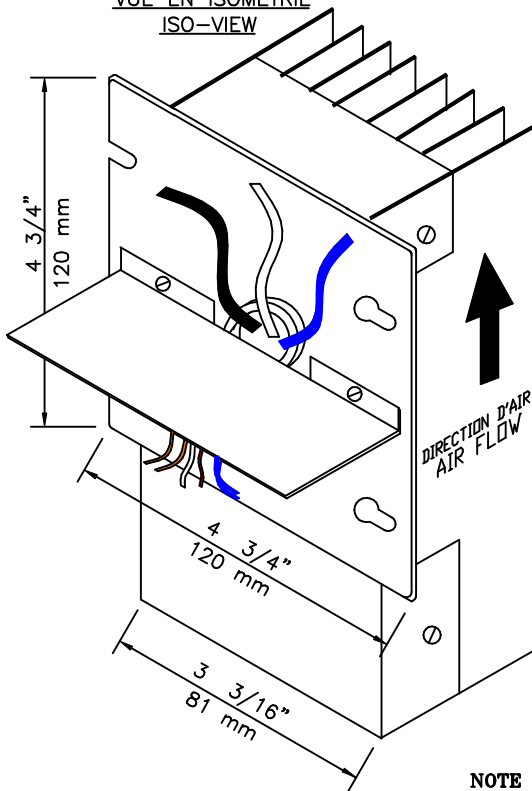
ELEVATION
SIDE VIEW



VUE EN PLAN
TOP VIEW



VUE EN ISOMETRIE
ISO-VIEW



LONWORK'S LIGHTING RELAY (TECHNICAL DATA)

OPERATION VOLTAGE :

- STANDARD : 208Vac, 240Vac, 277Vac & 347Vac
- SUR DEMANDE/ON REQUEST : 120Vac

-PHASE : UNE (1) ONE

-CYCLES : de/from 43Hz à/to 67Hz

-LOAD : Resistive load : 20Amps, 347V max.

Inductive load : (p.f.:0.45) 20Amps, 347V max.

Incandescent lamp : 2500Watts, 120V

Fluorescent lamp : 20Amps, 347V max.

HID lamp : 20Amps, 347V max.

-NBR OPERATION : 1,000,000 & +

* UTILISATION POUR TOUT LES TYPES DE CHARGE EN ÉCLAIRAGE INCLUANT LES "BALLAST" À HAUTE DÉCHARGE ÉLECTRIQUE

* SUITABLE FOR ALL TYPES OF LIGHTING LOADS INCLUDING CAPACITOR CORRECTED HID BALLAST

FILS DE PUISSANCE
NOIR-BLANC-BLEU/
POWER WIRES
BLACK-WHITE-BLUE

CONTROL SPECIFICATIONS :

-PUISSANCE REQUISE : AUTO-ALIMENTÉ AU RACCORD DES FILS DE PUISSANCE.

POWER REQUIREMENT : SELF POWERED WHEN CONNECTING POWER LEAD WIRES.

-TOPOLOGIE/TOPOLOGY : FTT10A COMBINE AVEC/WITH A 3150 NODE.

-ENTRÉE : 1 X CONFIGURABLE POUR UN INTERRUPTEUR LOCAL TYPE EN/HORS OU TYPE À PULSE OU TYPE CONTACT SEC MAINTENU.

INPUT : 1 X CONFIGURABLE FOR AN ON/OFF LOCAL SWITCH TYPE, OR PULSE TYPE OR MAINTAINED DRY CONTACT TYPE.

-ÉTATS : LED JAUNE POUR LE SERVICE PIN

LED VERT POUR L'ÉTAT DU PROCESSEUR

STATUS : YELLOW LED FOR FOR SERVICE PIN

GREEN LED FOR CPU STATUS

-FILS (18Awg) : DEUX (2) ORANGE, POUR LA CONNEXION RESEAU

DEUX (2) BLANC & ROUGE, POUR L'INTERRUPTEUR

WIRES (18Awg) : TWO (2) ORANGE, FOR NETWORK CONNECTION

TWO (2) WHITE & RED, FOR SWITCH CONNECTION

NOTE :

*RENCONTRE LE PROFIL LONMARK / MEET LONMARK PROFILE 3040, 3200 & 3251

*FOURNI AVEC BOÎTE DE JONCTION 4 3/4" X 4 3/4" JUNCTION BOX FURNISHED WITH UNIT

*COMPLÈT AVEC 12" DE FILS / COMPLETE WITH 12" LEAD WIRES

*DISSIPATION DE CHALEUR/HEAT DISSIPATION : λ/AT 20 Amps. - 36 Watts
λ/AT 5 Amps. - 8 Watts

LE RELAIS ELECTRONIQUE DOIT ETRE INSTALLE DANS UN ESPACE BIEN AERE.

ELECTRONIC RELAY MUST BE MOUNTED INTO A VENTILATED AREA.



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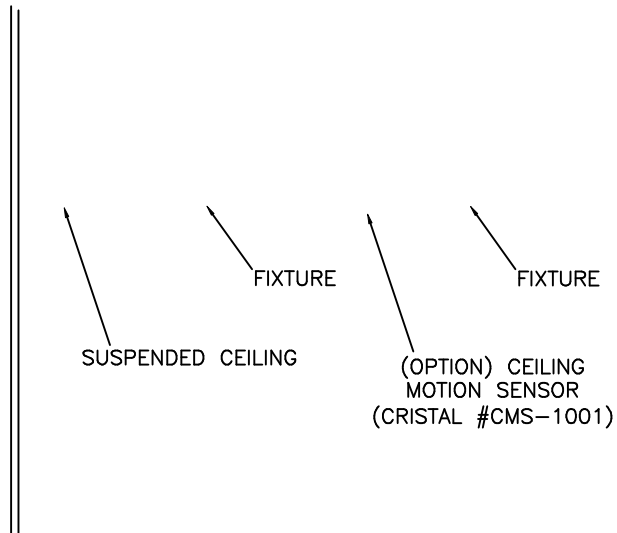
CAN/CSA-C22.2 NO. 14-M95
-APPAREILLAGE INDUSTRIEL DE COMMANDE
UL Std No. 508
-INDUSTRIAL CONTROL EQUIPMENT

CCLR-20-EC
347VAC-HID

NOTE:

DATE:

FEB 2003



NOTE : ALL WIRING SHALL BE AS NATIONAL ELECTRICAL CODE
OR LOCAL ELECTRICAL CODE



DRAWING NAME :

-EC

DATE : MAY 2003