

File E321253  
Project 4788729962

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REPORT

On

COMPONENT - DRIVERS FOR LIGHT-EMITTING-DIODE ARRAYS, MODULES AND  
CONTROLLERS

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## DESCRIPTION

## PRODUCT COVERED:

USR, CNR - Component LED Driver, see electrical ratings table for models.

## ELECTRICAL RATINGS:

| Model No.    | Input         |                |             |      | Output          |               |
|--------------|---------------|----------------|-------------|------|-----------------|---------------|
|              | Voltage (Vac) | Frequency (Hz) | Current (A) | PF   | Voltage (Vdc) * | Current (A) # |
| 9290 014 740 | 110~277       | 50/60          | 0.65-0.27   | 0.95 | 31-93           | 0.3-1.05      |

\* - The maximum output voltage is 130Vdc.

\*: The output current rating could be set in factory by using NFC antenna.

## TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

USR - Indicates investigation to the United States Standards for Light Emitting Diode (LED) Light Equipment for Use in Lighting Products, UL 8750.

CNR - Indicates investigation to the Canadian Standard for: Light emitting Diode (LED) Equipment for Lighting Applications, CAN/CSA-C22.2 No. 250.13.

This product been evaluated for the following characteristics:

|              |             |                              |                     | Additionally evaluated to UL 8750 Supplements noted below: |            |                           |       |
|--------------|-------------|------------------------------|---------------------|--|------------|---------------------------|-------|
| Model No.    | Input type  | Output type                  | Product is rated    | SA-SREC  | SE-Class P | SF-Wired Control Circuits | SG-Tc |
| 9290 014 740 | Mains Input | CC; Isolated<br>None Class 2 | Dry & Damp<br>& Wet | No   | No         | Isolated                  | 85°C  |

## Conditions of Acceptability:

Use - For use only in (or with) complete equipment where the acceptability of the combination is determined by UL LLC.

1. Rated output loading for these products was achieved using electronic load.
2. As part of temperature testing, the case temperature at the temperature reference point- identified as tc on the case- was monitored. During the normal temperature test of the end product, the temperature at the temperature reference point is to be monitored. The absolute value at the temperature reference point cannot exceed 85 °C.
3. This product is intended for building in a suitable enclosure. Acceptability of the LED driver- with respect to mounting, spacing, casualty, temperature and segregation- is to be determined as part of the end device evaluation.
4. This product is provided with 17 AWG SJOW stranded Cords, rated 105 °C minimum, 300 V minimum for input, output and dimming connections, 17 AWG SOW stranded Cords. Acceptability of the leads relative to secureness, is to be determined as part of the end device evaluation.
6. This product is dimmable using a low voltage 0-10 V proprietary interface. The dimming interface circuit has been evaluated for isolation from primary (input) circuits and secondary circuit. The maximum output parameters of the 0-10 V interface met the limitations for the Class 2 inherently limited per the UL 1310 standard.
7. The enclosure case of the driver must be connected to earth ground when installed in the end-use application.
8. The supply (input) cord is for factory wiring only. See below table the color code.

|   |         |                             |
|---|---------|-----------------------------|
| <i>Cord with three wires inside (Input)</i> |         |                             |
| Brown                                       | Blue    | Green/Yellow                |
| Line  | Neutral | Grounding (EMC improvement) |
| <i>Cord with two wires inside (Output)</i>  |         |                             |
| Brown                                       | Blue    | /                           |
| LED +                                       | LED -   | /                           |
| <i>Cord with two wires inside (Dimming)</i> |         |                             |
| Blue  | Brown   | /                           |
| 1-10V-                                      | 1-10V+  | /                           |