File E234324 Project 10CA07733

March 10, 2011

REPORT

on

INDUSTRIAL CONTROL PANELS - COMPONENT

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PRODUCT COVERED:

*USR, CNR - LED Lights, Model LED followed by 025, followed by 4, followed by 0, 1 or 2, followed by .0, .1 or .3 followed by -0 or -1, followed by 0 through 9.

General:

Model LED 025 is a LED Surface mounted light intended for use in Industrial Control Panels. These devices are an LED array light with options for an ON/OFF-Switch, motion detection or without ON/OFF switch or without motion detection.

ELECTRICAL RATINGS:

LED 0254x.0-xx: 100 - 240 Vac, 5 W, 50/60 Hz

LED 0254x.1-xx: 24 - 56 Vdc, 5 W

*

LED 0254x.3-xx: 100 - 240 Vac, 50/60 Hz and 90 - 125 Vdc, 5 W

("x" is used as placeholder and not relevant for electrical ratings, please see nomenclature for more details.)

Ambient Temperature: max. 60°C

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

 \mbox{USR} - Indicates investigation to United States Standard for Industrial Control Equipment, UL 508.

 ${\tt CNR}$ - This product was evaluated to the CSA Standard for Industrial Control Equipment, C22.2 No. 14.

Note: CNR = Canadian National Standards - Recognized USR = United States Standards - Recognized.

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CONSTRUCTION DETAILS:

General - The details of construction are covered in the following photographs and accompanying descriptive pages and illustrations.

Corrosion Protection - All parts of corrosion resistant materials are painted or plated as corrosion protection.

Tolerances - Dimensions are nominal unless specified otherwise.

Spacings - UL 508 - Industrial Control Equipment, Seventeenth Edition, Table 36.1.

		Potential in Volts 0-50	Potential in Volts 51-300
			(Devices having limited ratings)
		in (mm)	in (mm)
Between any uninsulated live	Through		
parts and an uninsulated live part of opposite polarity,	air or oil	1/16 (1.6)	1/16 (1.6)
uninsulated grounded part other than the enclosure or exposed metal parts	Over surface	1/16 (1.6)	1/8 (3.2)

MARKINGS:

Each unit shall be marked with:

- Manufacturer's name, file number or trade mark
- Catalog number
- Electrical ratings
- Ambient Temperature rating (May be found on instructions sheet)

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ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

Use - For use only in (or with) complete equipment, when the acceptability of the combination is determined by Underwriters Laboratories ${\sf Tnc}$

These components have been judged on the basis of the required spacings in the standard for Industrial Control Equipment: UL 508, which would cover the component itself if submitted for unrestricted Listing.

CONDITIONS OF ACCEPTABILITY:

- 1. The suitability of the mounting means to be determined in the end product.
- 2. These devices have not been evaluated for field wiring.
- 3. The suitability of the input and output power connections to be determined in the end product.
- *4. The need to repeat the temperature tests shall be considered in the end use when more than one LED lights are connected together.

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NOMENCLATURE BREAKDOWN:

LED 025 4 0 .1 -0 0 I II III IV V VI VII

- I. Basic Type Designation
- II. Product Line
- III. 4- LED Type
- IV. Switch Options
 - 0 On/Off switch provided
 - 1 Movement sensor provided
 - 2 Without switch or movement sensor
- V. Supply Voltage
 - .0 100 240 Vac
 - .1 24 56 Vdc

.3 - 100 - 240 Vac, 90 - 125 Vdc

VI. Connection Options

- -0 = Plug
- -1 = Pressure clamp
- VII. Mounting Options
 - 0 Magnet mounting
 - 1 Screw mounting
 - 2 19 inch mounting
 - 3 Clip mounting
 - # Additional mounting configurations. # equals any number 4
 through 9.