

File E234324
Project 10CA07733

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REPORT

on

INDUSTRIAL CONTROL PANELS - COMPONENT

Stego Elektrotechnik GmbH
74523 Schwaebisch Hall, Germany

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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.

USR, CNR - LED Lights, Model LED followed by 021 or 022, followed by 0, 1, 2, followed by 0, followed by .0, followed by -00 through -99

USR, CNR - LED Lights, Model LED followed by 121 or 122, followed by 0, 1, 2, 3, followed by 4, followed by .0, followed by -00 through -99

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.

Models LED 021/022/121/122 are 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, external door switch or without a control device.

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.)

LED 021xx.0-xx: 100 - 240 Vac, 11 W, 50/60 Hz

LED 022xx.0-xx: 100 - 240 Vac, 16 W, 50/60 Hz

LED 121xx.0-xx: 120 Vac, 11 W, 50/60 Hz

LED 122xx.0-xx: 120 Vac, 16 W, 50/60 Hz

Ambient Temperature: max. 60°C

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

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

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.

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 parts and an uninsulated live part of opposite polarity, uninsulated grounded part other than the enclosure or exposed metal parts	Through air or oil	1/16 (1.6)	1/16 (1.6)
	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)
- **Units with Courtesy Receptacle: "Maximum Load of 15A, 120V" or equivalent.**

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 Inc.

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.
5. **For units employing the courtesy receptacle with a rating of 15 A, 120V, the gauge (AWG) of the supply wire/power cord providing power to the product shall be minimum of 14 AWG.**

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

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.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.

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NOMENCLATURE BREAKDOWN:

For the following series, See Illustration 13 and 14 for model breakdown:

LED Lights, Model LED followed by 021 or 022, followed by 0, 1, 2, followed by 0, followed by .0, followed by -00 through -99

LED Lights, Model LED followed by 121 or 122, followed by 0, 1, 2, 3, followed by 4, followed by .0, followed by -00 through -99

LED	021	0	0	.0	-00
I	II	III	IV	V	VI

I. Basic Type Designation**II. Product Line**

021 - LED 300
 022 - LED 500
 121 - LED 300 with socket
 122 - LED 500 with socket

III. 4 Switch Options

0 - on/off light switch
 1 - PIR moving sensor
 2 - external door switch
 3 - without external door switch/without on/off light switch

IV. Plug socket

0 - without
 4 - USA

V. Supply Voltage

.0 - 100 - 240 Vac or 120 Vac

VI. Connection Options

-00 = Screw fixing (daisy-chain)
 -01 = Screw fixing (not daisy-chain)
 -02 to -29 = not relevant for certification
 -30 = Magnet fixing (daisy-chain)
 -31 = Magnet fixing (not daisy-chain)
 -32 to -99 = not relevant for certification