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Project 05CA02044

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REPORT

on

PROGRAMMABLE CONTROLLERS

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DESCRIPTION

PRODUCT COVERED:

USL, CNL - Listed Open Type, Programmable Controller, Gigabit Switch, Cat No. MS4128 - **may be followed by additional numbers, letters dashes or slashes** and Media Module Cat. No. MM4-4TX/SFP.

GENERAL:

These devices are for use in industrial automation applications. These devices (MICE-Family) are Modular Industrial Control Ethernet LAN components for rail mounting consisting of the main switch MS4128-5 and the media modules MM4. They are to be supplied by a Class 2 source only. They communicate via interfaces through wire or fiber optics.

ELECTRICAL RATINGS:

Main Supply Voltage for MS4128-5: 18..32 Vdc, Class 2
Input Current: 4.5..2.5 A

Max. surrounding air temperature: 60°C

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE'S USE):

CNL - Indicates investigation to Canadian National Standard(s)
C22.2 No. 142-M1987.

USL - Indicates investigation to United States Standard UL 508,
(Industrial Control Equipment).

Note: CNL = Canadian National Standards - Listed.
USL = United States Standards - Listed.

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.

Class 2 circuit - The investigation has been conducted under consideration of the Class 2 requirements. This allows for the investigation of spacings and components on the secondary to be waived.

Installation Instructions - Shall be provided and include a wiring diagram. It shall include a statement "Only for connection with a Class 2 power supply" or equivalent. This may be provided in the installation instructions separately instead of marked on the device.

Warning Markings - See Section General for details.

Markings - Listed company name or trademark, model number, electrical ratings, and wiring diagram is required. Terminal identifications are also on the device.

The following markings are also provided on the device or as part of the installation instructions:

"Use 60/75 or 75°C copper (CU) wire only"

Remark: No external Power Supply for MM4 media modules.

*

NOMENCLATURE BREAKDOWN:

for media modules:

MM4	-	4TX/SFP
I	II	III

I: basic media module designation

II: dash

III: media modul designation

4TX: twisted pair port

SFP: fiberoptic module

for switch modules:

MS4128	-	L3P
I	II	III

I: Gigabit Switch

II: dash

III: software function level

MODEL MS4128-5

FIG. 1, 2

* General - These figures show the gigabit switch MS4128 and media module Cat. No. MM4-4TX/SFP and are for reference use only. Due to the use of Class 2 Source, no evaluation of components was considered necessary except of the following:

1. Terminal Block - (XCFR2), 2 provided, 4 pole, manufactured by Phoenix, cat. no. MVSTBR 2.5, rated 300V, 15 A, suitable for field wiring.
2. Any kind of (NWGQ2 or DUXR2) fiberoptic module.