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Project 11NK04484

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REPORT

on

MOTOR CONTROLLERS FLOAT AND PRESSURE OPERATED

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Minneapolis, MN

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DESCRIPTION

PRODUCT COVERED:

USL - Pressure Sensor Switches Models PC, followed by 01VR, 001R, 001V, 003V, 010V, 016V, 025V, 040V, 100R followed by -2, followed by 01, 02, 03, 04, 10 or 11, followed by -2UPN, followed by 8 and X, followed by H1141.

GENERAL:

These devices are pressure sensor switches intended to be used in industrial control equipment and similar equipment where the suitability of the combination has been determined by Underwriters Laboratories Inc. The devices are automatic pressure operated transducers that employ piezo resistive technology to sense the deflection of a diaphragm as pressure of air or water, non-hazardous or non-corrosive gas or liquid or fluid in a pipeline is applied, and converts the deflection to a proportional electrical signal then send a switching signal to device being controlled. They are intended for use in operating and or for controlling applications, in an indoor Pollution Degree 2 environment, to be installed isolated from any Primary Power Source and power by a Class 2 source.

These devices have not been investigated for safety or limiting applications.

RATINGS:

Input - 15 - 30V dc, Class 2

Switching Output (2 outputs maximum) - 30V dc, Class 2 (0.2A)

Analogue Current Output - 4-20mA

Analogue voltage output - 0-10V

Pressure Rating Range Depends on Models: -1 - 100 bar g (-14.5 - +1450 PSI, see nomenclature)

Temperature Rating - -40 - +85 °C

Environmental Rating - Type 1

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REP USE):

USL - Indicates Investigated to Standard for Industrial Control Equipment UL508, 17th edition, revised 2010-04-15 - Listed

NOMENCLATURE

PC	XXXX	-	2	XX	-	2UPN	8	X	-	H1	1	4	1
I	II		III	IV		V	VI	VII		VIII	IX	X	XI

I. Pressure Switch Series Model= PC

II. Pressure ranges in bar g

01VR = -1 - 0

001R = 0 - 1

001V = -1 - 1

003V = -1 - 2.5

010V = -1 - 10

016V = -1 - 16

025V = -1 - 25

040V = -1 - 40

* 100R = 0 - 100

III. Type of Housing

2 = Cylindrical Design without display

IV. Type of Pressure Connection

01 = G 1/4" female thread

02 = 1/4" - 18 NPT female thread

03 = 1/4" - 18 NPT male thread

04 = G 1/4" male thread

10 = R1/4" male thread

11 = R1/4" female thread

V. Output Mode

2UPN = 2 Switching Outputs

VI. Operating Voltage

8 = 15 - 30VDC

VII. Electrical Version

X = With LED display

VIII. Type of Connector

H1 = Connectors M12 x 1

IX. Type of Connector Position

1 = Straight

X. Number of Contacts

4 = 4 contacts M12 x 1

XI. Assignment

1 = Standard