F 4830 503

Wiring legend Connection allocation

Deviating from the other output modules, there are no terminals for field circuits, except the "Plant-stop" circuit. The output signals are transmitted by means of build-in electro pneumatic valves and compressed air.

"Plant-stop"

Nonhazardous

Class I, II, III, Division 1, Group A-G

or Class I, Zone 1, Group IIC/IIB

and also

Class I, II, III, Division 2, Group A-G

or Class I, Zone 2, Group IIC/IIB

Hazardous (Classified) Locations

B

Input for "Plant-stop"

Connector X2, terminals (-/+) 1/2

P

Y0

The Type 9478/22-08-51 Digital Output Module with valves is designed to receive a digital signal from the IS1 CPU & Power Module and control up to 8 pneumatic valves.

The module is intrinsically safe for installation in a Class I, II, III, Division 1, Group A-G or Class I, Zone 1, Group IIC/IIB and also Class I, II, III, Division 2, Group A-G or Class I, Zone 2, Group IIC/IIB hazardous location according to NEC Article 504/505 or Canadian Electrical Code, CSA C22;

Providing intrinsically safe connections for Class I, Division 1, Groups A-G or Class I, Zone 0, Group IIC/IIB hazardous locations listed below.

Entity parameters with values for circuit with concentrated inductors and capacitors:

"Plant-stop"

CL I,II,III, DIV 1, Group A-G or CL I, Zone 1, Group IIC

```
V<sub>OC</sub> =
          6.6 V
          67 mA
Isc
      =
Po
     =
          110 mW
```

CL I, DIV CL I, Zone	1, Group A,B 1, Group IIC	CL I, DIV 1, Group C-G CL I, Zone 1, Group IIB/IIIC			
L _o [mH]	C ₀ [μF]	L _o [mH]	C ₀ [μF]		
10	0.84	20.0	5.2		
1	2.1	1.0	12		
0.1	3.9	0.1	24		

Notes:

- Intrinsically safe apparatus shall be switches or an Approved 1. System or Entity device connected in accordance with the manufacturer's installation instructions.
- 2. For Entity concept use the appropriate parameters from above to ensure the following:

- 3. The values of La and Ca in the tables above are the maximum values for combined inductance and capacitance (including cable inductance and capacitance). The values for La and Ca marked in grey are the values determined according to curves and tables of IEC 60079-11, Annex A. These grey marked values may be used for assessment as per IEC 60079-14, intrinsically safe circuits with only one source of power.
- Suitable separation must be maintained between wiring of each 4. I.S. input channel.
- For Installation in Division 1 or Zone 1 see Certification drawing 5. for IS1 resp. IS1+ Remote I/O System No. 9400 6 031 003 1 as part of the documentation of the CPU & Power Modules.
- For Installation in Division 2 or Zone 2 see Certification drawing 6. for IS1 resp. IS1+ Remote I/O System No. 9400 6 031 004 1 or 9400 6 031 006 1 as part of the documentation of the CPU & Power Modules.
- Installation in Division 2 or Zone 2 is also allowed according to 7. NEC Article 504/505 or Canadian Electrical Code, CSA C22.

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