9111-NI
FNICO POWER SUPPLIES
IIC / GROUPS A-D

- 180mA output current: supports 12 x 15mA fieldbus devices per power supply
- Fieldbus repeater allows connection to an uncertified host
- 250V ac input/output/power supply isolation
- Switch selectable terminator on host side
- Fixed terminator on NI side
- Switch selectable power for host side
- Mountable in Zone 2/Division 2

MODULE SPECIFICATION
See also Common Specification

OUTPUT
Number of channels
One
Voltage
12.4V (min.) at 25°C (see note)
Design current
0 to 180mA
Current limit
>200mA
Output ripple
Complies with clause 22.6.2 of the fieldbus standard †
Minimum load
No load
Maximum cable length
Determined by NI load
Isolation
Input to output: 250V ac rms
Input and output to power supply: 250V ac rms

INPUT
Input voltage
20 - 30V dc
Current consumption:
300 mA (typical) 330 mA (max.) at 20V
250 mA (typical) 280 mA (max.) at 24V
210 mA (typical) 235 mA (max.) at 30V
Power dissipation with 180mA field load + 30mA host load:
3.3 W (typical) 4.5 W (max.)
Input protection
Fuse + supply reversal diode

SAFETY
Location of module
Safe area, Zone 2, IIC T4 hazardous area or Class 1, Div 2,
Groups A, B, C, D T4 hazardous location.
Location of field wiring
Zone 2, IIC T4 hazardous area or Class 1, Div 2, Groups A, B, C, D T4 hazardous location.
Field wiring protection
Non-incendive
Certification Code
II 3 G Ex nA[L] IIC T4
Safety description
14.0V, 233mA
FM entity parameters
14.0V, 233mA
FM Certificate number
FM3016981
ATEX Certificate number
MTL03ATEX9111X
Certification is compatible with:
IEC60079-27/CDV: 2004
EC Directive 94/9/EC (ATEX100A)

MECHANICAL
Mounting
DIN rail/surface mounting
Module width
42mm
Weight
360g

LED INDICATORS

<table>
<thead>
<tr>
<th></th>
<th>OFF</th>
<th>ON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power (green)</td>
<td>Power fail</td>
<td>Power OK</td>
</tr>
<tr>
<td>Fault (red)</td>
<td>Normal</td>
<td>Fault</td>
</tr>
<tr>
<td>Host Comm (yellow)</td>
<td>Comms failure</td>
<td>Comms OK</td>
</tr>
<tr>
<td>NI Comm (yellow)</td>
<td>Comms failure</td>
<td>Comms OK</td>
</tr>
</tbody>
</table>

Note: Temperature coefficient 12mV/°C. If the power supply and fieldbus cable are operated at low temperatures, the reduced resistance of the cable more than compensates for the reduction in output voltage.

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† The applicable fieldbus specifications and standards are:

The given data is only intended as a product description and should not be regarded as a legal warranty of properties or guarantees. In the interest of further technical developments, we reserve the right to make design changes.