

9122-IS

FISCO POWER SUPPLY

IIB / Groups C, D

- ◆ 265mA output current: supports 16 x 15mA IS fieldbus devices per power supply
- ◆ Fieldbus repeater
- ◆ Multidrop isolators on single fieldbus link
- ◆ 250V ac input/output/power supply isolation
- ◆ Switch selectable terminator on host side
- ◆ Fixed terminator on IS side
- ◆ Switch selectable power for host side
- ◆ Mountable in Zone/Division 2



MODULE SPECIFICATION

See also Common Specification

OUTPUT

Number of channels

One

Voltage

13.1V (min.) at 25°C (see note)

Design current

0 to 265mA

Current limit

>140mA

Output ripple

Complies with clause 22.6.2 of the fieldbus standard†

Minimum load

No load

Maximum cable length

Determined by IS load, see MTL Application Note AN9026 for details

Isolation

Input to output: 250V ac rms

Input and output to power supply: 250V ac rms

Um = 250V rms

INPUT

Input voltage

19.2 - 30V dc

Current consumption:

380mA (typical) 495mA (max.) at 20V

315mA (typical) 410mA (max.) at 24V

255mA (typical) 330mA (max.) at 30V

Power dissipation with 110mA load:

4.1W (typical) 6W (max.)

Input protection

Fuse + supply reversal diode

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:
— FOUNDATION™ fieldbus 31.25 kb/s
Physical Layer Profile Specification, document FF-816.
— IEC 61158-2: 2000.
— ISA-S50.02-1992 for 31.25 kb/s fieldbus systems.

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 1, IIB T4 hazardous area or Class 1, Div 1, Groups C, D T4 hazardous location.

Field wiring protection

Intrinsically safe

Certification Code

II(2) GD [EEx ib] IIB, II 3 GD EEx nA IIB T4.

Safety description

14.8V, 359mA, 5.31W, 0.50µF*, 550µH*

FM entity parameters

14.8V, 359mA, 5.31WW, 0.50µF*, 550µH*

ATEX certificate numbers

MTL02ATEX9122

BAS02ATEX7277

FM certificate number

J.I.3012571

Certification is compatible with

Fieldbus FOUNDATION FF816-FISCO.

IEC/TS 60079-27 FISCO Technical Specification.

EC Directive 94/9/EC (ATEX 100A)

MECHANICAL

Mounting

DIN rail/surface mounting

Module width

42mm

Weight

360g

LED INDICATORS

	OFF	ON
Power (green)	Power fail	Power OK
Fault (red)	Normal	Fault
Host Comm (yellow)	Comms failure	Comms OK
IS Comm (yellow)	Comms failure	Comms OK

* When used in accordance with IEC/TS 60079-27, there is no need to take into consideration Co and Lo.

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



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