## 9121-IS

# **FISCO POWER SUPPLY**

IIC / Groups A-D

- 120mA output current: supports 8 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



See also Common Specification

#### **OUTPUT**

Number of channels

Voltage

12.4V (min.) at 25°C (see note)

**Design current** 

0 to 120mA

**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:** 

235mA (typical) 330mA (max.) at 20V 190mA (typical) 265mA (max.) at 24V 155mA (typical) 215mA (max.) at 30V

Power dissipation with 110mA load:

2.9W (typical) 4.3W (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.

- IFC 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, IIC T4 hazardous area or Class 1, Div 1, Groups A, B,C, D T4 hazardous location.

#### Field wiring protection

Intrinsically safe

#### **Certification Code**

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

### Safety description

14V, 180mA, 2.52W, 0.20μF\*, 300μH\*

#### FM entity parameters

14V, 180mA, 2.52W, 0.20µF\*, 300µH\*

#### ATEX certificate numbers

MTL02ATEX9121

BAS02ATEX7276

## 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 quarantee. In the interest of further technical developments, we reserve the right to make design changes

