October 2016 EPS 9492-PS-PLUS Rev 2

CROUSE-HINDS

MTL 9492-PS-PLUS

12V DC intrinsically safe power supply

- Isolated power supply
- Zone 2 mountable
- DIN-rail or backplane mounting
- ATEX / IECEx certified
- 480mA @ 10.00V DC Ex ia IIB
- 550mA @ 11.90V DC Ex ib IIB output
- Power over Ethernet option
- Multiple outputs achieved by ganging 9492-PS-PLUS modules using 24V DC power distribution backplane
- Wide operating temperature -40°C to +70°C

The MTL 9492-PS-PLUS power supply is the preferred method for supplying the 9460-ET series of intrinsically safe ethernet modules and is based on an isolating power supply. It takes a 24V DC safe area / Zone 2 supply and produces an intrinsically safe, 12V DC nominal output capable of powering the ethernet modules mounted in a Zone 1 hazardous area. The 9492-PS-PLUS may be mounted in a safe area or Zone 2 hazardous area.

Each 9492-PS-PLUS can power a single ethernet module. In order to provide multiple outputs required for several ethernet modules, the 9492-PS-PLUS power supply module is ganged up to the required number of ways, either DIN-rail mounted or using the power distribution backplane to simplify the 24VDC input connection to the modules.

The 9492-PS-PLUS module has LED power indication for both input and output along with internal current limiting and electronic auto-reset circuit breaker action to protect the module in the event of its output being short circuited or overloaded. This also minimises the power dissipation during the fault to a negligible level, thus improving reliability.

The output can be from either the Ex ia IIB or Ex ib IIB output connectors depending upon application. The 'ib' IIB output provides a higher useable output power where the Gas Group and Zone allows.



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SPECIFICATION

See also System Specification

POWER INPUT

Separately powered Input voltage 24V DC (20-30V)

Input current

390mA

Input protection Fuse + supply reversal diode

Connectors (see dimension drawing)

screw terminals - capacity 2.5mm² DIN rail mounting: stranded or single core multipin connector

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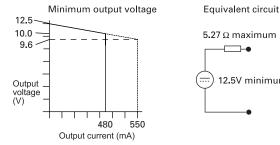
12.5V minimum

Backplane mounting:

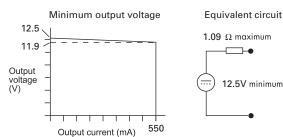
POWER OUTPUT

[Ex ia] output (pins 1 & 3)

Graph shows normal working range & total available range



[Ex ib] output (pins 5 & 6)



Connectors

9492-PS-PLUS is supplied with two IS output connectors. Capacity 2.5mm² stranded or single core

(When using crimp ferrules for the IS connectors the metal tube length should be 12mm and the wire trim length 14mm.)

ISOLATION

Isolation - input to output Um = 253V rms

SAFETY

Location of module Safe area, Zone 2 Location of field wiring

[Ex ia] output Zone 0, IIB hazardous area

[Ex ib] output Zone 1. IIB hazardous area



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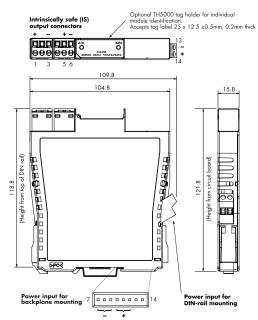
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Certification Code See approvals Safety description

See certificate

DIMENSIONS (mm)



MECHANICAL

Mounting DIN rail

Please contact Eaton MTL product line for 'backplane' option Dimensions

See diagram

Weight

130 g

ENVIRONMENTAL

Ambient temp

-40°C to +70°C Operating -40°C to +70°C Storage

Relative Humidity 5 to 95% RH (non-condensing)

Ingress Protection

Select enclosure to suit application, see certificate for information

LED INDICATORS

	OFF	Flash	ON
Pwr (green)	24V power fail	N/A	24V power OK
IS (green)	IS power fail	output overload or short circuit present	IS power OK

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ASIA-PACIFIC: +65 6 645 9888 sales.mtlsing@eaton.com 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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