

MTL 9492-PS-PLUS

12V DC intrinsically safe power supply

- Isolated power supply
- Zone 2 mountable
- DIN-rail or backplane mounting
- ATEX / IECEx / UKEX / North America (MET_{C/US}) certified
- 480mA @ 10.00V DC - Ex ia
- 550mA @ 11.90V DC - Ex ib 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 or Ex ib output connectors depending upon application. The 'ib' output provides a higher useable output power where the Gas Group and Zone allows.



Powering Business Worldwide

Eaton Electric Limited,
Great Marlings, Butterfield, Luton
Beds, LU2 8DL, UK.
Tel: + 44 (0)1582 723633 Fax: + 44 (0)1582 422283
E-mail: mtlenquiry@eaton.com
www.eaton.com

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Publication No. EPS 9492-PS-PLUS Rev 3
February 2023

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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)

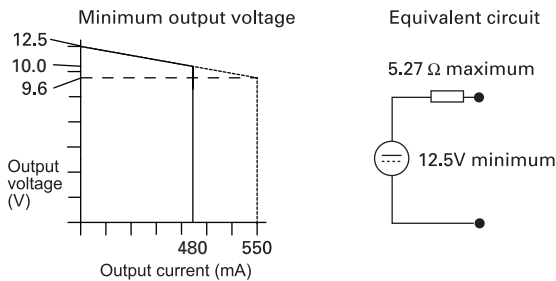
DIN rail mounting: screw terminals – capacity 2.5mm² stranded or single core

Backplane mounting: multipin connector

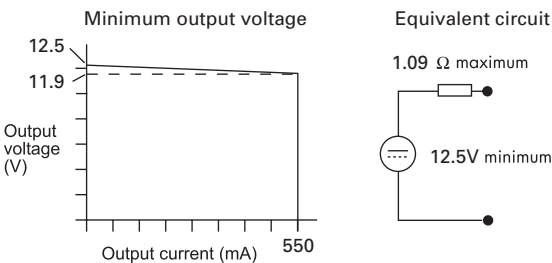
POWER OUTPUT

[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, hazardous area

[Ex ib] output

Zone 1, hazardous area



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E-mail: mtlenquiry@eaton.com
www.eaton.com

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Publication No. EPS 9492-PS-PLUS Rev 3 090223
February 2023

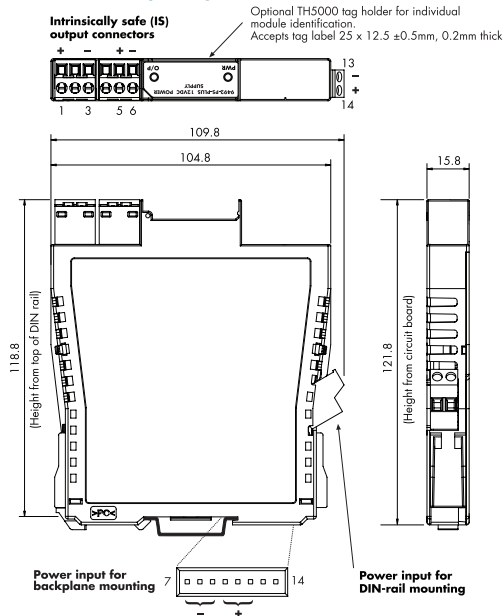
Certification Code

See approvals

Safety description

See certificates CML 15ATEX2071X, CML ATEX 4072X,
IECEX CML 15.0034X, IECEX TRA 17.0003X CML
21UKEX21069X, CML 21UKEX41070X, MET File E115585.

DIMENSIONS (mm)



MECHANICAL

Mounting

DIN rail

Please contact Eaton MTL product line for 'backplane' option

Dimensions

See diagram

Weight

130 g

ENVIRONMENTAL

Ambient temp

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

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

EUROPE (EMEA):
+44 (0)1582 723633
mtlenquiry@eaton.com

THE AMERICAS:
+1 800 835 7075
mtl-us-info@eaton.com

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

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