

Node services carrier

8712-CA-NS

- ◆ Profibus BIM
- ◆ accommodates one BIM, two PSUs and four I/O modules
- ◆ sub-miniature, 9-pin, D connectors for LAN
- ◆ DIN rail or panel mounting
- ◆ printed wiring board
- ◆ rugged polycarbonate moulding
- ◆ routes Bussed Field Power to I/O modules
- ◆ isolated earthing bar for cable screen/shield



CARRIER SPECIFICATION

See also System Specification

CARRIER MOUNTING MODULES

PSU Modules (main and redundant)8910-PS-DC
Bus Interface Module(Profibus-DP) 8502-BI-DP
Node Services Module8510-NS-MO
I/O modulesgeneral purpose (2/2) various

HAZARDOUS AREA APPROVALS

Location of node

.....Class 1, Div 2, Groups A, B, C, D T4 hazardous location or
Zone 2, IIC T4 hazardous area

Location of field wiringAs per node

Field terminals acceptedGeneral purpose or Zone 2/Div 2

I/O modules acceptedGeneral purpose or Zone 2/Div 2

ELECTRICAL

Railbus connectormale out

External dc power supply (optional)

A 6-pin connector is provided at the top/rear of the carrier to connect a 12.0 V dc ($\pm 5\%$) power supply. This is an alternative to the carrier mounted PSU modules.

Bussed field power supply (optional)

An 8-pin connector is provided at the top rear of the carrier to connect power supplies for 'field power'. Such supplies are routed through certain I/O module to provide power to field circuits.

LAN CONNECTORS

LAN A9-way 'D' sub-miniature, female (x2)

MATERIALS

Carrier mouldingModified poly-phenylene oxide
Printed wiring boardEpoxy resin woven glass laminate

ENVIRONMENTAL

Ambient temp

Operating- 40°C to + 70°C
 Storage- 40°C to + 85°C

Relative Humidity5 to 95% RH (non-condensing)

Vibration and ShockSee System specification sheet

MECHANICAL

Dimensions342 (w) x 170 (d) x 22 (h) mm

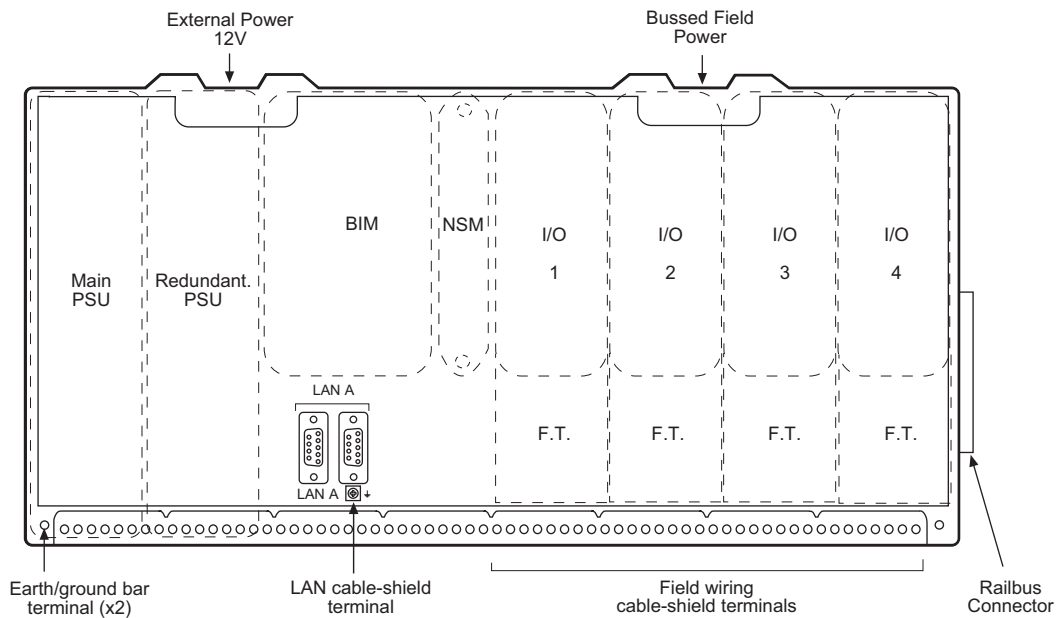
Weight (approx.)680 g

Mounting methodsFlat panel (4 fixings) or DIN rail

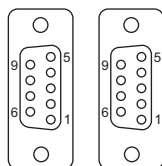
DIN-rail types

.....'Top hat', 7.5 x 35 mm or 15 x 35 mm to EN 50022
G-section, to EN 50035





LAN INTERFACE

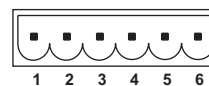


LAN connections RS485 interface (x2)	9-way (female) terminals
Shield/protective ground	Pin 1
RxD /TxD +	Pin 3
DGND (0V)	Pin 5
VP (0V)	Pin 6
RxD /TxD -	Pin 8

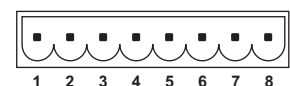
The LAN has duplicate connections wired in parallel - pin 1 to pin 1, pin 2 to pin 2, etc.

POWER SUPPLY CONNECTIONS

External Power



Busse Field Power



Terminal	External Power	Busse Field Power
1	Test Point 1	I/O Modules 1 & 2
2	0 V	-ve (or Neutral)
3	+12 V	I/O Modules 1 & 2
4	+12 V	+ve (or Live)
5	0 V	I/O Modules 3 & 4
6	Test Point 2	+ve (or Live)
7	Not applicable	I/O Modules 3 & 4
8	Not applicable	-ve (or Neutral)

Pins for power supplies are provided in pairs. This enables one pin to be used for the supply input and the second to loop to another connector, when required.

