

BIM carrier

8715-CA-BI

- ◆ accommodates Bus Interface Module
- ◆ Modbus or Profibus-DP
- ◆ dual LAN connections (A & B)
- ◆ switchable RS485/RS422 termination options
- ◆ DIN rail or panel mounting

CARRIER SPECIFICATION

See also System Specification

LAN CONNECTORS

LAN A9-pin, D, sub-miniature, female

LAN B9-pin, D, sub-miniature, female

Switchable terminations for Modbus RS485, Modbus RS422 or Profibus-DP

CARRIER MOUNTING MODULES

Bus Interface Modules(Profibus-DP) 8502-BI-DP

.....(Modbus) 8505-BI-MB

HAZARDOUS AREA APPROVALS

Location of node Zone 2, IIC T4 hazardous area

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

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



MATERIALS

Carrier mouldingModified Poly-Phenylene Oxide

Printed wiring boardEpoxy Resin Woven Glass Laminate

DC POWER

External power supply12.0 V dc \pm 5%
(via 6-pin external power connector at top/rear)

MECHANICAL

Dimensions (overall)93 (w) x 170 (d) x 35 (h) mm

Weight (approx.)680 g

Mounting methodsFlat panel (2 fixings) or DIN rail

DIN-rail types‘Top hat’, 7.5 x 35 mm to EN 50022

.....or 15 x 35 mm to EN 50022

.....or G-section, to EN 50035



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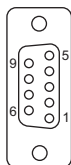
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LAN INTERFACE



8715-CA-BI
continued

LAN A

Terminals	Modbus RS422	Modbus RS485	Profibus-DP
Pin 1	FGND/Socket shroud	FGND/Socket shroud	FGND/Socket shroud
Pin 2	RxD+	RxD/TxD+	NC
Pin 3	TxD+	RxD/TxD+	RxD/TxD+
Pin 4	RxD-	RxD/TxD-	RTS+
Pin 5	GND	GND	GND
Pin 6	V_T	V_T	V_P
Pin 7	RxD-	RxD/TxD-	RTS+
Pin 8	TxD-	RxD/TxD-	RxD/TxD-
Pin 9	NC	NC	NC

LAN B

Terminals	Modbus RS422	Modbus RS485
Pin 1	Socket shroud	Socket shroud
Pin 2	RxD+	RxD/TxD+
Pin 3	TxD+	RxD/TxD+
Pin 4	RxD-	RxD/TxD-
Pin 5	GND	GND
Pin 6	V_T	V_T
Pin 7	RxD-	RxD/TxD-
Pin 8	TxD-	RxD/TxD-
Pin 9	NC	NC

Note: Pins with assignments shown in *italics* are normally not connected; they occur because of the 'universal' nature of the interface.

LAN DIL SWITCHES

One switch block per LAN to determine termination and/or bias
ON = switch to right; OFF = switch to left (with normal orientation)
Set operating mode with switches as follows:

Profibus-DP applications

Mode	Switch positions	Termination
RS485 not terminated		None

Note: Any required termination should be implemented in the Profibus D-type plug.

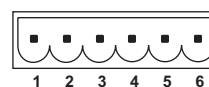
Modbus applications

Mode	Switch positions	Termination
RS422 not terminated		None
RS422 terminated receiver		
RS422 terminated & biased receiver		
RS485 not terminated		None
RS485 terminated		
RS485 terminated & biased		

Note: Switch model may vary but switching directions remain the same.

POWER SUPPLY CONNECTIONS

External power



Terminal	External power
1	No connection
2	0 V
3	+12 V
4	+12 V
5	0 V
6	No connection

Power supply pins 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.



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