0AC808.9-1

Data sheet
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1 General information

The 0AC808.9-1 Ethernet hub is a standalone device that can be used universally as a Level 2 hub in standard Ethernet or POWERLINK networks. It is suitable for both 100 Mbit/s (Fast Ethernet) and 10 Mbit/s networks. The hub automatically recognizes the transfer speed for the channels.

The Ethernet connections are made using RJ45 connectors. All ports are equipped with Auto-MDIX (auto-crossover).

The hub can be installed horizontally or vertically on the mounting rail. It also has fastening possibilities on the sides for direct mounting.

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2 Order data

Order number	Short description	Figure
	Infrastructure components	
0AC808.9-1	8-port industrial hub (layer 2), 24 VDC, 10/100 Mbit/s with autonegotiation, automatic MDIX, order terminal block TB704 separately!	
	Required accessories	
	Terminal blocks	
0TB704.9	Accessory terminal block, 4-pin, screw clamp terminal block 2.5 mm²	
0TB704.91	Accessory terminal block, 4-pin, push-in terminal block 2.5 mm²	

Table 1: 0AC808.9-1 - Order data

Information:

- **The mounting rail fastener required for installation is included in the delivery.**
- **The 4-pin terminal block TB704 is not included in delivery.**

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3 Technical description

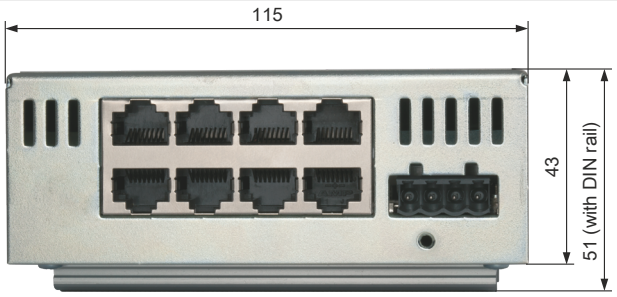
3.1 Technical data

Order number	0AC808.9-1
General information	
Status indicators	Network activity for each channel, link/collision for each channel, supply voltage
Diagnostics	
Bus function	Yes, using LED status indicator
Hub power supply	Yes, using LED status indicator
Type	8-port industrial hub (layer 2)
LED name	
Network activity	RX (orange)
Link/Collision	L/C (Link = Green, Collision = Red)
Supply voltage	OK (orange)
Certifications	
CE	Yes
UL	cULus E115267 Industrial control equipment
LR	ENV1
Interfaces	
Signal	Ethernet
Execution	Shielded RJ45
Line length	Max. 100 m between 2 stations (segment length)
Transfer rate	10/100 Mbit/s
Transfer	
Physical layer	10BASE-T/100BASE-TX
Half-duplex	Yes
Full-duplex	No
Autonegotiation	Yes
Auto-MDI/MDIX	Yes
Hub propagation delay	0.64 to 0.68 µs
Power supply unit	
Input voltage range	18 to 30 VDC
Current consumption	Max. 150 mA
Power consumption	Max. 3 W
Execution	Switched-mode power supply with reverse polarity protection diode, no overvoltage protection
Electrical properties	
Electrical isolation	Ports isolated from each other, ground and power supply. Power supply and ground isolated.
Operating conditions	
Mounting orientation	
Face-up	Yes
Vertical	Yes
Installation elevation above sea level	Max. 2000 m
Degree of protection per EN 60529	IP20
Ambient conditions	
Temperature	
Operation	
Face-up	-25 to 60°C
Vertical	-25 to 60°C
Storage	-40 to 85°C
Transport	-40 to 85°C
Relative humidity	
Operation	5 to 95%, non-condensing
Storage	5 to 95%, non-condensing
Transport	5 to 95%, non-condensing
Mechanical properties	
Note	Order 1x terminal block TB704 separately.
Installation	Top-hat rail installation, top-hat rail adapter is included in delivery.
Dimensions	
Width	115 mm
Height	43 mm (51 mm with top-hat rail)
Depth	86 mm

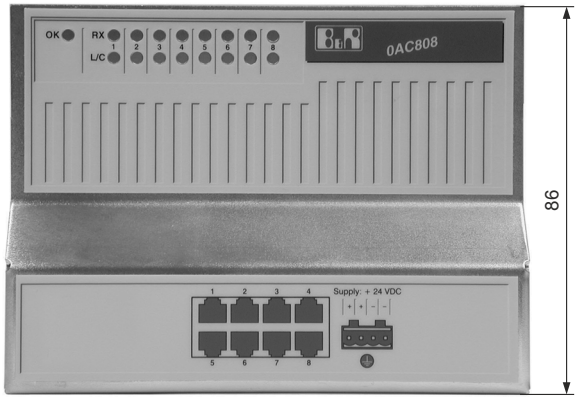
Table 2: 0AC808.9-1 - Technical data

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3.2 Dimensions



Front view



Top view with connection labeling

Figure 1: Dimensions

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3.3 Installation

The hub is installed in the control cabinet with the mounting rail fastener included in the delivery. Two types of installation are possible:



Figure 2: Installed lying down with mounting rail on bottom of housing



Figure 3: Installed standing up with mounting rail on the back

3.4 RJ45 Ports 1 - 8

Pin	Assignment
1	RXD
2	RXD\
3	TXD
4	Termination
5	Termination
6	TXD\
7	Termination
8	Termination

Table 3: Pin assignment on ports1 - 8

Legend: RXD ... Receive data
TXD ... Transmit data

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3.5 24 VDC supply

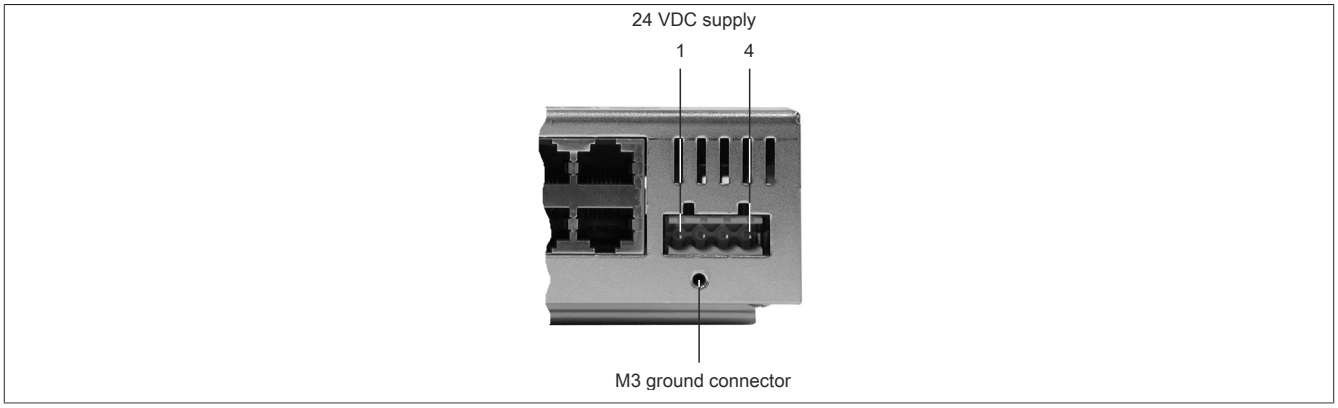


Figure 4: 24 VDC supply

Terminal	Assignment
1	+24 VDC
2	+24 VDC
3	GND
4	GND

Table 4: Terminal assignments 24 VDC supply

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