

# 0AC808.9-1

## 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.

## 2 Order data


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

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.

## 3 Technical data

Model number	0AC808.9-1
<b>General information</b>	
Status indicators	Network activity for each channel, link/collision for each channel, supply voltage
Diagnostics	
Bus function	Yes, using status LED
Hub power supply	Yes, using status LED
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
<b>Interfaces</b>	
Signal	Ethernet
Design	Shielded RJ45
Cable 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

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

<b>Model number</b>	<b>0AC808.9-1</b>
<b>Power supply</b>	
Input voltage range	18 to 30 VDC
Current consumption	Max. 150 mA
Power consumption	Max. 3 W
Design	Switching power supply with reverse polarity protection diode, no overvoltage protection
<b>Electrical characteristics</b>	
Electrical isolation	Ports isolated to each other, to ground and power supply. Power supply and ground isolated.
<b>Operating conditions</b>	
Mounting orientation	
Horizontal	Yes
Vertical	Yes
Degree of protection per EN 60529	IP20
<b>Environmental conditions</b>	
Temperature	
Operation	
Horizontal	-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
<b>Mechanical properties</b>	
Note	Order 1x TB704 terminal block separately
Installation	Top-hat rail installation, top-hat adapter 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

## 4 Dimensions

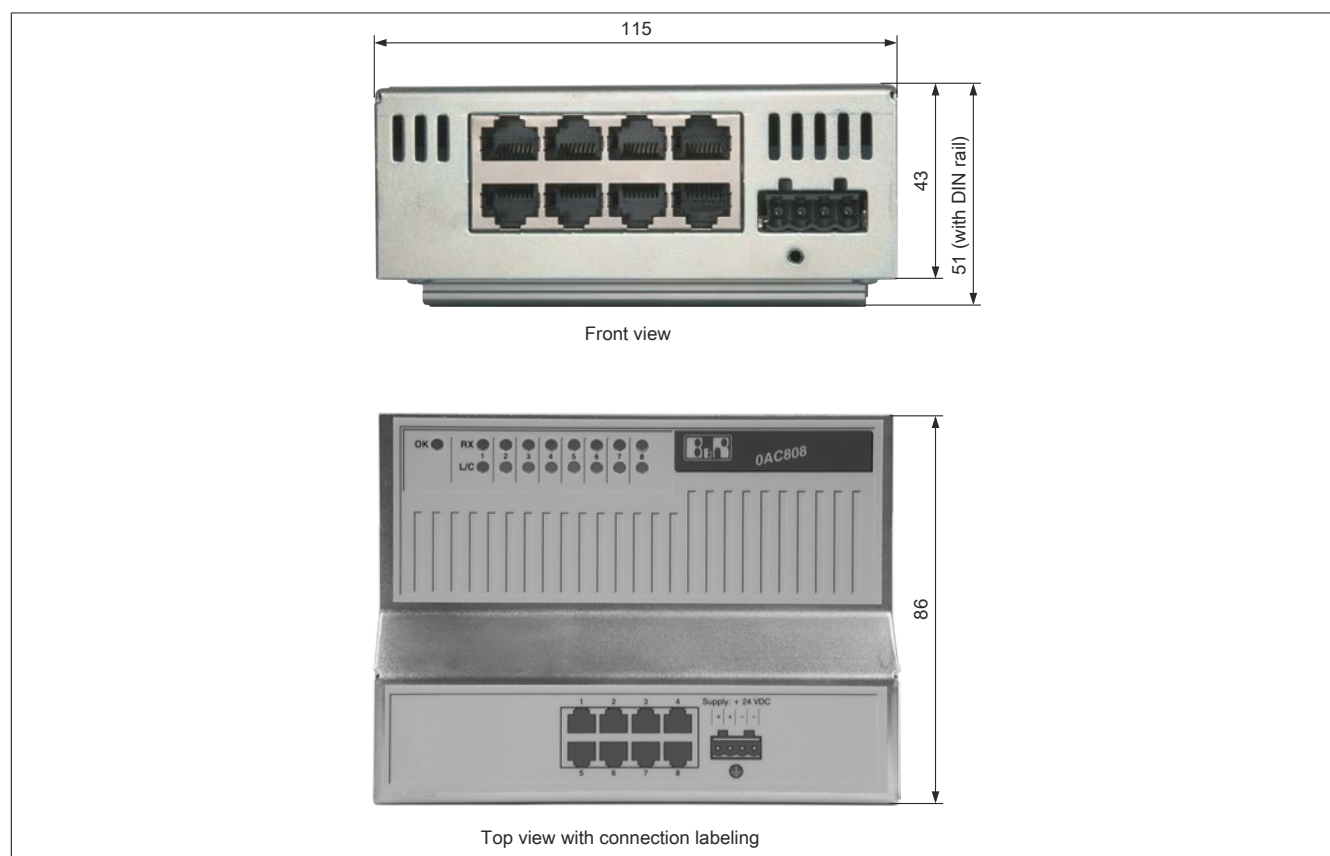


Figure 1: Dimensions

## 5 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

## 6 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 ports 1 - 8

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

7 24 VDC supply

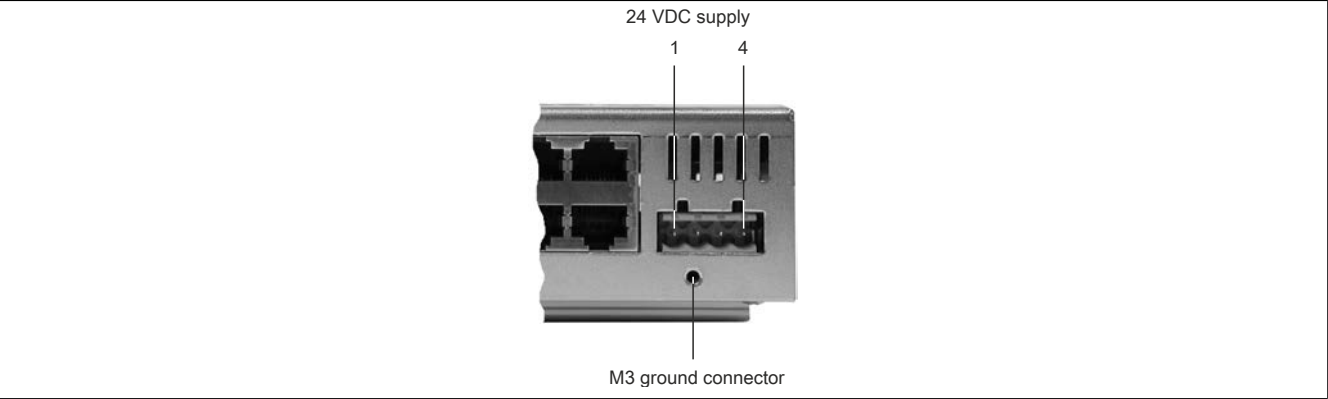


Figure 4: 24 VDC supply

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

Table 4: Terminal assignments 24 VDC supply