

# 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	8x 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 clamps 2.5 mm <sup>2</sup>	
0TB704.91	Accessory terminal block, 4-pin, cage clamps 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

Product ID	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 supply	Yes, using status LED
Type	8x industrial hub (Layer 2)
LED name	
Network activity	RX (orange)
Link/Collision	L/C (Link = green, Collision = red)
Supply voltage	OK (orange)
Certification	
CE	Yes
cULus	Yes
CE	Yes
cULus	Yes
GOST-R	Yes
<b>Interfaces</b>	
Signal	Ethernet
Design	Shielded RJ45 ports
Cable length	Max. 100 m between two stations (segment length)
Transfer rate	10/100 Mbit/s
Transmission	
Physical interfaces	10 BASE-T/100 BASE-TX
Half-duplex	Yes
Full-duplex	No
Autonegotiation	Yes
Auto-MDI / MDIX	Yes
Hub runtime	0.64 to 0.68 $\mu$ s

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

<b>Product ID</b>	<b>0AC808.9-1</b>
<b>Power supply</b>	
Input voltage range	18 to 30 VDC
Power consumption	Max. 150 mA
Power consumption	Max. 3 W
Design	Switched-mode power supply with reverse polarity protection diode, no overvoltage protection
<b>Operating conditions</b>	
Mounting orientation	
Horizontal	Yes
Vertical	Yes
EN 60529 protection	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 characteristics</b>	
Note	Order 1x TB704 terminal block separately
Installation	Mounting rail installation and mounting rail adapter included in delivery
Dimensions	
Width	115 mm
Height	43 mm (51 mm with mounting rail)
Depth	86 mm

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

## 4 Dimensions

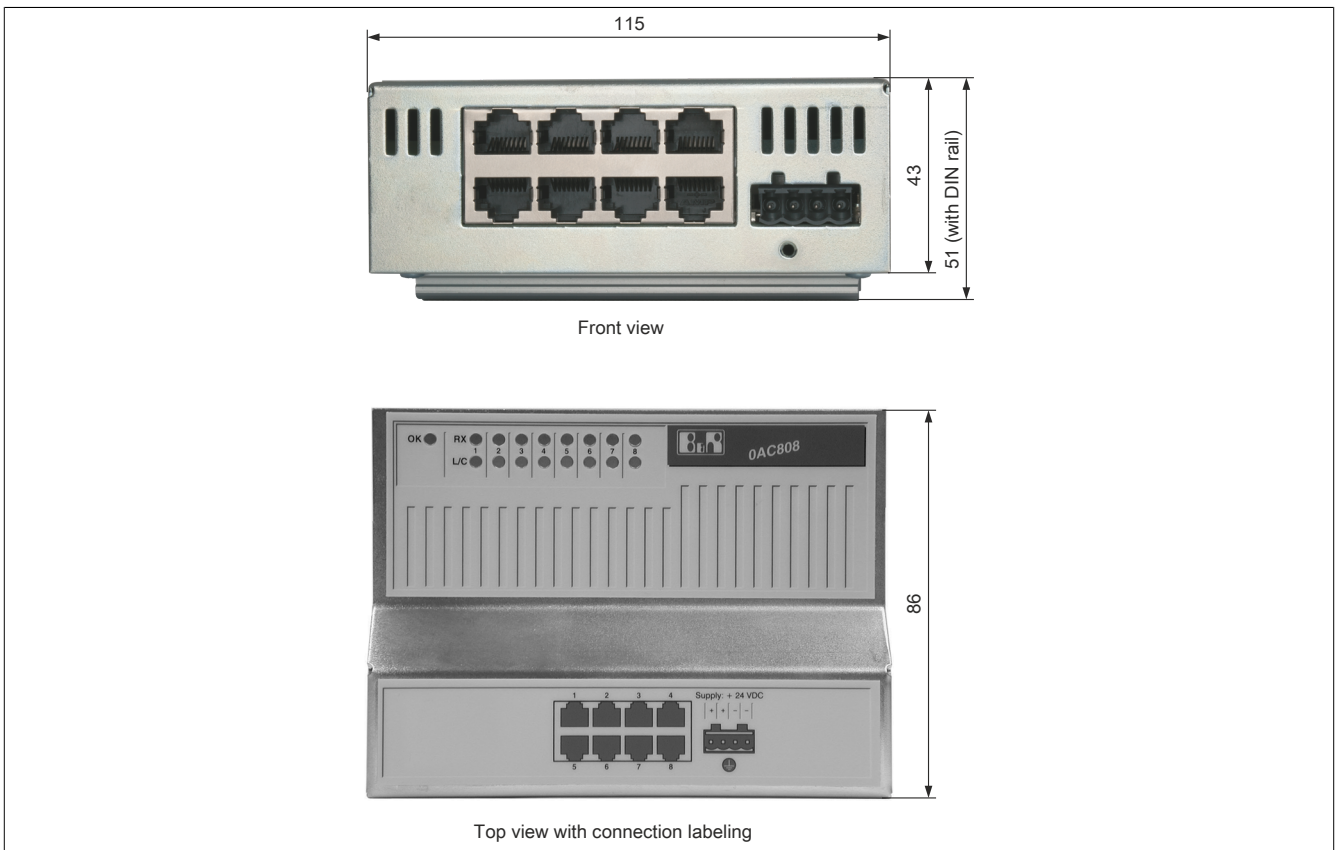


Figure 1: Dimensions

## 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

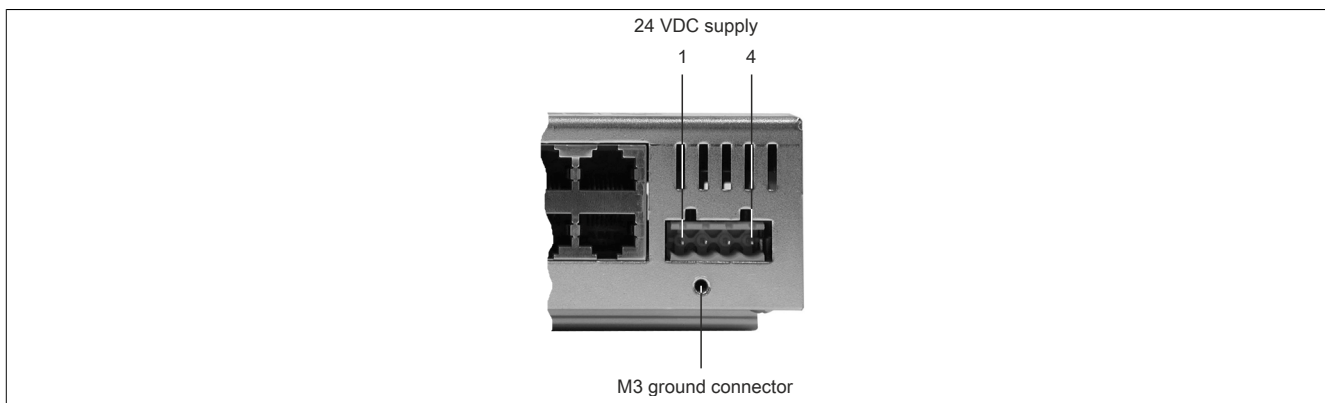


Figure 4: 24 VDC supply

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

Table 4: Terminal assignments 24 VDC supply