



VERDRAHTUNGSTABELLEN PATHFINDER

Inhalt

In diesem Dokument werden die Anschlüsse der Komponenten des Steuerungssystem aufgelistet.

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1. Übersicht Komponenten

- Brainboxes ED588
- Brainboxes ED549
- Brainboxes Ethernet Switch x4
- 2x Crydom Solid State Relais
- Industrial Panel PC
- IP64 Netzwerkkamera

2. ED588 Anschlussstabelle

Terminal Block Pin Outs

Terminal Block	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5
Yellow	-V	DOut 0	DOut 1	DOut 2	DOut 3
Orange	-V	DOut 4	DOut 5	DOut 6	DOut 7
Grey	SIG GND	RS-485 D-	RS-485 D+	RS-485 D+	RS-485 D-
Green	-V	DIn 0	DIn 1	DIn 2	DIn 3
Blue	-V	DIn 4	DIn 5	DIn 6	DIn 7
Black	-V	+VA	+VB	-V	Func GND
Power Input +5V to +30V DC 100mA@24V 2.5W Max					

Ethernet Port Pin Outs

PIN	FUNCTION
1	RD+ / TD+
2	RD- / TD-
3	TD+ / RD+
4	NC
5	NC
6	TD- / RD-
7	NC
8	NC

Schwarz PIN 1	GND
Schwarz PIN 2	+12 V
Schwarz PIN 5	GND (Func GND = V GND)
Orange PIN 2	Relais #1 Eingang GND
Orange PIN 3	Relais #2 Eingang GND
Blau PIN 2	Signal Radsensor

3. ED549 Anschlussstabelle

Terminal Block Pin Outs

Terminal Block	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5
Yellow	AGND	Aln 0-	Aln 0+	Aln 1-	Aln 1+
Orange	AGND	Aln 2-	Aln 2+	Aln 3-	Aln 3+
Grey	GND	RS-485 D-	RS-485 D+	RS-485 D+	RS-485 D-
Green	AGND	Aln 4-	Aln 4+	Aln 5-	Aln 5+
Blue	AGND	Aln 6-	Aln 6+	Aln 7-	Aln 7+
Black	-V	+VA	+VB	-V	Func GND
Power Input +5V to +30V DC 100mA@24V 2.5W Max					

Ethernet Port Pin Outs

PIN	FUNCTION
1	RD+ / TD+
2	RD- / TD-
3	TD+ / RD+
4	NC
5	NC
6	TD- / RD-
7	NC
8	NC

Schwarz PIN 1	GND
Schwarz PIN 2	+12V
Schwarz PIN 5	GND
Blau PIN 1	GND
Blau PIN 2	GND
Blau PIN 3	SIGNAL Winkelsensor

4. Ethernet Switch Anschlussstabelle

Power Terminal Pin Outs

PIN	FUNCTION
1	-V
2	+VA
3	+VB
4	-V
5	Functional Earth

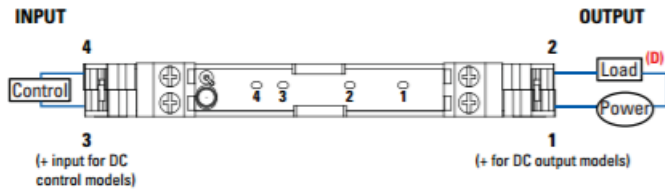
Ethernet Ports x4 Pin Outs

PIN	FUNCTION
1	RD+ / TD+
2	RD- / TD-
3	TD+ / RD+
4	NC
5	NC
6	TD- / RD-
7	NC
8	NC

Schwarz PIN 1	GND
Schwarz PIN 2	+12V
Schwarz PIN 5	GND
RJ45 Buchse #1	Computer: Patchverbindung Cat5e 4 wire
RJ45 Buchse #2	ED588: Patchverbindung Cat5e 4 wire
RJ45 Buchse #3	ED549: Patchverbindung Cat5e 4 wire
RJ45 Buchse #4	Netzwerkamera: Patchverbindung Cat5e 4 wire

5. Solid State Relais Anschlussstabelle

Wiring Diagram (C)



(C) Wiring diagram is identical for each individual section whether it is a single or four channel assembly.

(D) For AC loads, the AC line can be wired to either SSR/socket terminal 1 or terminal 2. The AC load may also be wired on either the line or neutral side of the SSR. For DC loads, the proper polarity must be observed for the power supply, load and SSR/socket with terminal 1 being positive with respect to terminal 2.

Relais #1: PIN 1	+12 V
Relais #1: PIN 2	Hydraulikblock Ventil
Relais #1: PIN 3	+12V
Relais #1: PIN 4	ED588 Orange PIN 2
Relais #2: PIN 1	+12 V
Relais #2: PIN 2	Hydraulikblock Ventil
Relais #2: PIN 3	+12V
Relais #2: PIN 4	ED588 Orange PIN 3

6. Industrial Panel PC Anschlussstabelle

I/O Ports and Switches	1 x 5-pin M12 connector for power adapter
	1 x 8-pin M12 connector for two USB
	1 x 5-pin M12 connector for CAN-bus and Audio line out
	1 x 8-pin M12 connector for UART RS-232/422/485
	1 x 8-pin M12 connector for UART RS-232
	1 x 8-pin M12 connector for GbE LAN

3.5.5 Power Connector

Connects to a power source.

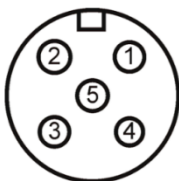


Figure 3-15: Power Connector

Pin	Description
1	Power
2	Power
3	Ground
4	Ground
5	Ground

Table 3-12: Power Connector Pinouts

3.5.1 LAN Connector

Connects to a network.

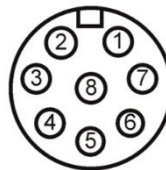


Figure 3-11: LAN Port

Pin	Description	Pin	Description
1	LAN-MDI0+	2	LAN-MDI2-
3	LAN-MDI2+	4	LAN-MDI3-
5	LAN-MDI1-	6	LAN-MDI3+
7	LAN-MDI0-	8	LAN-MDI1+

Table 3-8: LAN Port Pinouts

7. IP64 Netzwerkkamera Anschlusstabelle

Achtung Kamera Versorgung ist NICHT verpolungs-sicher!

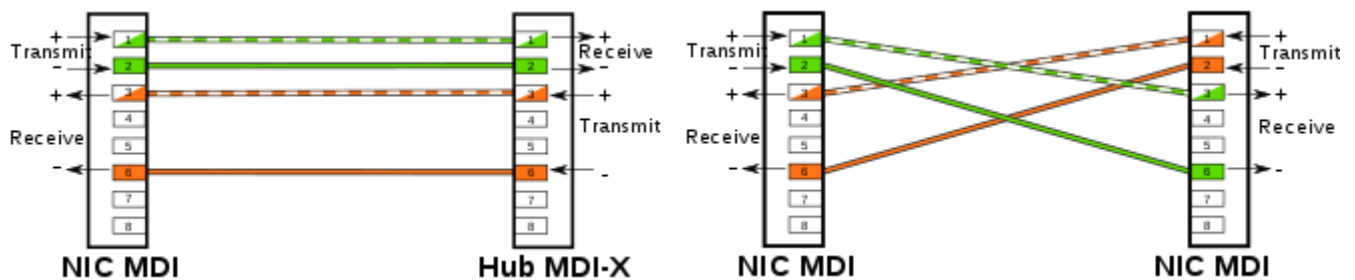
Falsche Polarität führt zum Defekt der Kamera!

Aktueller Anschluss:

(Netzwerkkabel & Schutzschlauch kann bei Bedarf ausgetauscht werden, Polung beachten)

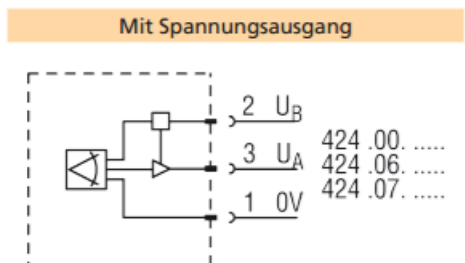
Blau Weiß	GND
Blau	12V
Grün Weiß	Orange Weiß
Grün	Orange
Orange Weiß	Grün Weiß
Orane	Grün

Diese Verbindung wurde als Crossover Verbindung ausgeführt (Grün -> Orange, Orange -> Grün).



Da der Ethernet Switch allerdings AUTO-MDI-X unterstützt können beide Varianten verwendet werden.

8. Winkelsensor

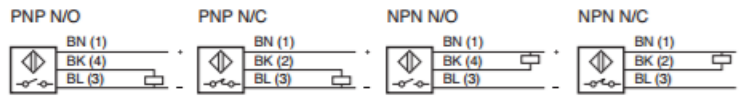


PIN 01	GND
PIN 02	ED549 Blau PIN 3
PIN 03	+12V

9. Radsensor

CONNECTIONS

3 WireDC Connections



Braun	+12V
Blau	GND
Schwarz	ED588 Blau Pin 2