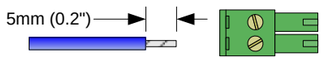
CABLE PREPARATION FOR PHOENIX CAPTIVE SCREW CONNECTORS

The length of the exposed wires in the stripping process is critical. **The ideal length is 5 mm (0.2")**.

- If the stripped section of the wire is longer than 5 mm, the exposed wires may touch, causing a short circuit between them.

- If the stripped section of the wire is shorter than 5 mm, the wires can be easily pulled out even if tightly fastened by the captive screws. Insulation stripped shorter than 5 mm can electrically isolate the connection as well.

The wires also must not be tinned. Tinned wire does not hold tight in the captive screws and can break easilly after several bends.

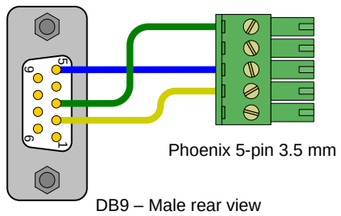


RS-232 bi-directional (ports SERIAL)

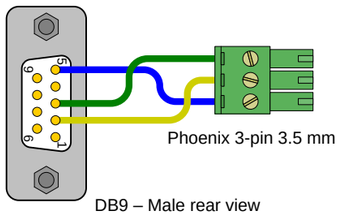
Pin	Signal	Description	Direction	Phoenix 5-pin 3.5 mm
1	TxD	RS-232 Transmitted Data	From the unit	
2	RTS	RS-232 Request to Send	From the unit	
3	GND	Ground		
4	RxD	RS-232 Received Data	To the unit	
5	CTS	RS-232 Clear to Send	To the unit	

Pin	Signal	Direction	Phoenix 3-pin 3.5 mm
1	TxD	From the unit	
2	RxD	To the unit	
3	GND		

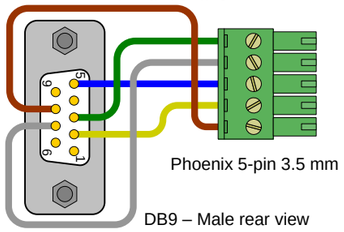
Standard serial cable with DB9 – Male w/o handshake



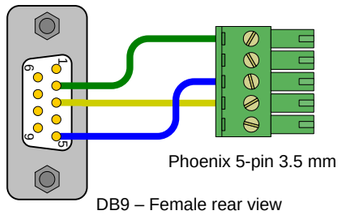
Standard serial cable with DB9 – Male w/o handshake



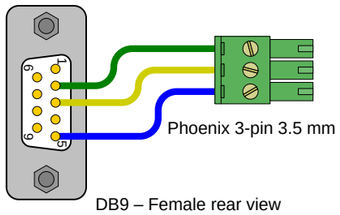
Standard serial cable with DB9 – Male with handshake



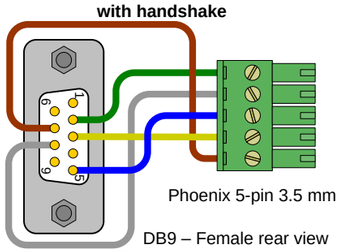
Standard serial cable with DB9 - Female w/o handshake



Standard serial cable with DB9 - Female w/o handshake



Standard serial cable with DB9 – Female with handshake



Caution: Check with the manufacturer for the serial cable pinouts. Do not assume your equipment serial hookup uses standard pinouts.

RS-422 bi-directional (ports SERIAL)

Pin	Signal	Description	Direction	Phoenix 5-pin 3.5 mm
1	Tx A+	RS-422 Transmit Data (idles high)	From the unit	
2	Tx B-	RS-422 Transmit Data (idles low)	From the unit	
3	GND	Ground		
4	Rx A+	RS-422 Receive Data (idles high)	To the unit	
5	Rx B-	RS-422 Receive Data (idles low)	To the unit	

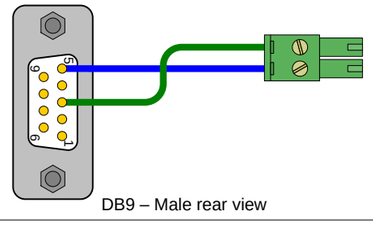
RS-485 (ports SERIAL)

Pin	Signal	Description	Phoenix 5-pin 3.5 mm	Phoenix 3-pin 3.5 mm
1	A+	RS-485 Data +		
2	B-	RS-485 Data-		
3	GND	Ground		
4	N.C.	Not connected		
5	N.C.	Not connected		

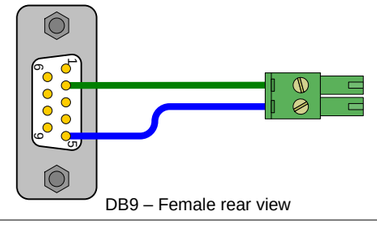
RS-232 serial output (ports IR/SERIAL, VERSATILE)

Pin	Signal	Description	Direction	Phoenix 2-pin 3.5 mm
1	S	TxD (RS-232 Transmitted Data)	From the unit	
2	G	Ground		

Standard serial cable with DB9- Male one-way communication



Standard serial cable with DB9- Female one-way communication



Caution: Check with the manufacturer for the serial cable pinouts. Don't assume your equipment serial hookup uses standard pinouts.

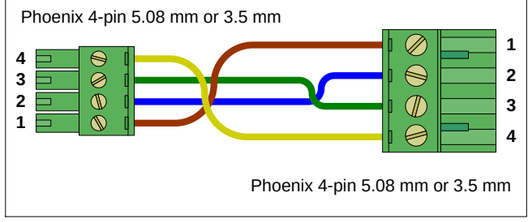
IR output (ports IR/SERIAL, VERSATILE)

Pin	Signal	Description	Phoenix 2-pin 3.5 mm
1	S	IR signal output	
2	G	Ground	

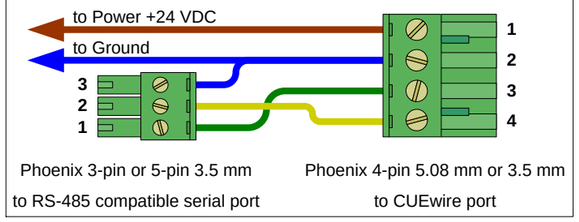
RS-485 (CUEwire*)

Pin	Signal	Description	Phoenix 4-pin 5.08 mm	Phoenix 4-pin 3.5 mm
1	+	Power +24 VDC		
2	G	Ground		
3	A+	RS-485 Data +		
4	B-	RS-485 Data -		

CUEwire cable



RS-485 to CUEwire cable



∗ connectors on keypads, port S1 on controlCUE-one and controlCUE-two (left 4-pins)

RELAY

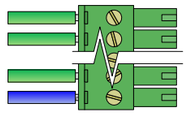
Pin	Signal	Description	Phoenix 3-pin 3.5 mm	Open relay inside the unit	Close relay inside the unit
1	NC	Contact normally close			
2	C	Contact common			
3	NO	Contact normally open			

PWR IN (24 V)

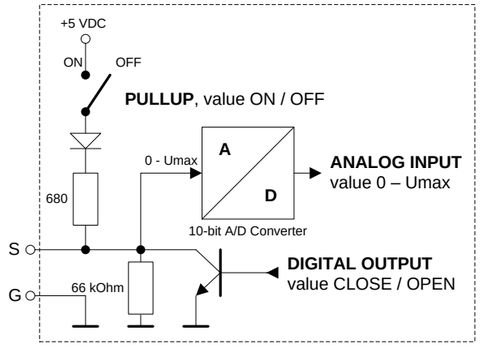
Pin	Signal	Description	Phoenix 2-pin 3.5 mm
1	+	Power +24 VDC (+12 VDC)	
2	G	Ground	

CUE SYSTEM CONNECTOR WIRING

GENERAL I/O

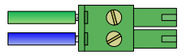
Pin	Signal	Description	Phoenix N-pin 3.5 mm
1	S	Input / output signal	
2	S	Input / output signal	
N-1	S	Input / output signal	
N	G	Ground	

General I/O port inside the unit



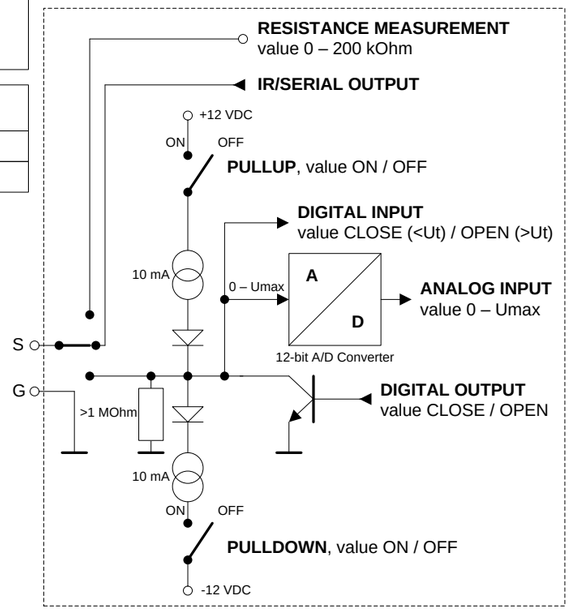
Model	Umax
controlCUE-one, controlCUE-two	5 V

VERSATILE

Pin	Signal	Description	Phoenix 2-pin 3.5 mm
1	S	Input / output signal	
2	G	Ground	

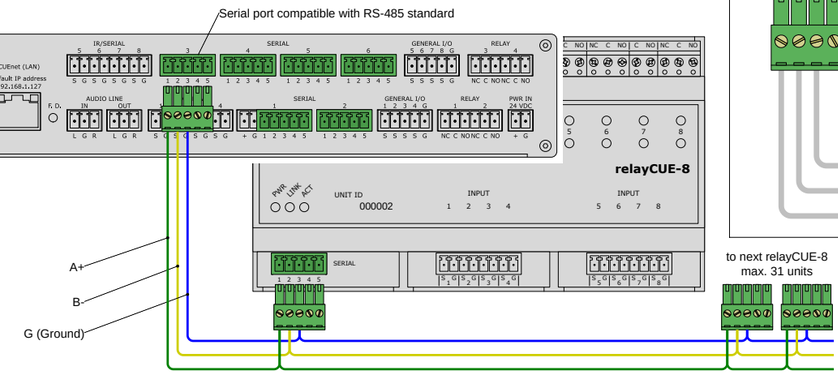
Input \ Voltage range	High	Low
ANALOG INPUT max. voltage Umax	10 V	2.5 V
DIGITAL INPUT threshold voltage Ut	6 V	1.5 V

Versatile port inside the unit

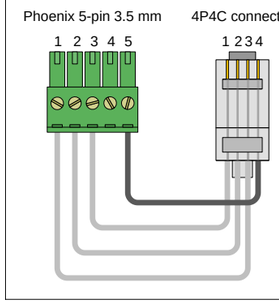


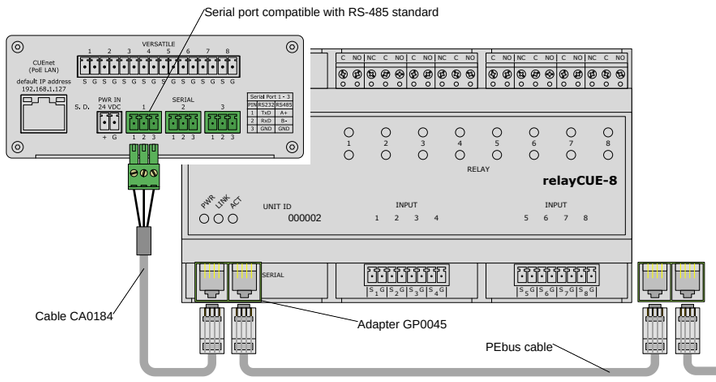
relayCUE-8 Serial Port Connection

RS-485 SERIAL Port Connection

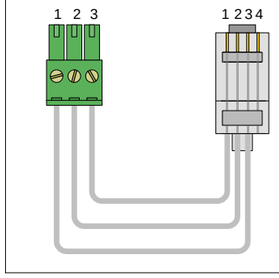


Cable CA0183

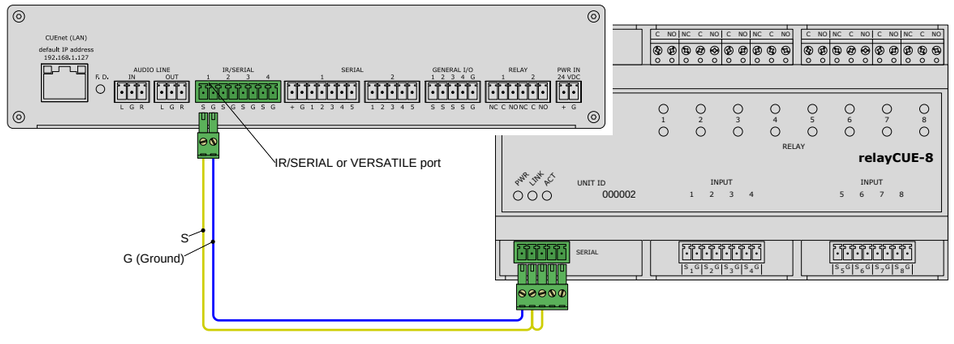




Cable CA0184



IR/SERIAL or VERSATILE Port Connection



Note: only one relayCUE-8 unit can be driven from one IR/SERIAL or VERSATILE port.

CUE SYSTEM CONNECTOR WIRING