

Pin Assignment

The sockets and plugs of the DL16 are manufactured by Binder and part of Binder Series 719. On request other sockets/plugs (or device cases) can be used instead.

POWER/CAN (6...16 V): This plug supplies the DL16 with the supplying voltage and connects the DL16 optionally with a CAN.

Pin	Assignment [Cable Colour]
1	Supplying Voltage U_B (7 V to 20 V DC) [red]
2	Ground [brown]
3	DL16CAN only: CAN Low [black]
4	DL16CAN only: CAN High [orange]

RS1/2: This plug connects the first serial port of the DL16 with the host PC and the second serial port of the DL16 with an optional data source. If the DL16 is shipped with the option GPS, the GPS receiver can also be supplied with voltage via this plug.

Pin	Assignment	SUB-D-Plug of host PCs [Comment]
1	TX1	Pin 2
2	Ground	Pin 5
3	RX1	Pin 3
4	U_B or TX2	Option GPS (Standard) Option RS232: [Serial data output]
5	RX2	[Serial data input, i.e. GPS]
		Pins 7 and 8 are bridged
		Pins 1, 4, 6 are 9 bridged

TRIGGER: This socket provides inputs to start and to stop a measurement.

Pin	Assignment
1	$U_B - 1$ V (wrong DC polarity protected; $R_i = 220 \Omega$)
2	Ground
3	External static trigger or start trigger ($R_i = 100 \text{ k}\Omega$ against 5 V); Start of measurement with low level (< 2 V);
4	Stop trigger ($R_i = 100 \text{ k}\Omega$ against 5 V); Stop of measurement with high level (> 3 V);

AN1/2: This socket provides inputs for analog channel 1 and 2.

Pin	Assignment
1	$U_B - 1$ V (wrong DC polarity protected)
2	Ground
3	Analog input 1
4	Analog input 2
5	5,12 V Reference voltage (max. 20 mA for AN1/2 and AN3/4)

AN3/4: This socket provides inputs for analog channel 3 and 4.

Pin	Assignment
1	$U_B - 1$ V (wrong DC polarity protected)
2	Ground
3	Analog input 3
4	Analog input 4
5	5,12 V Reference voltage (max. 20 mA for AN1/2 and AN3/4)

AN5/6: This socket provides inputs for analog channel 5 and 6.

Pin	Assignment
1	$U_B - 1$ V (wrong DC polarity protected)
2	Ground
3	Analog input 5
4	Analog input 6
5	5,12 V Reference voltage (max. 20 mA for AN5/6 and AN7/8)

AN7/8: This socket provides inputs for analog channel 7 and 8.

Pin	Assignment
1	$U_B - 1$ V (wrong DC polarity protected)
2	Ground
3	Analog input 7
4	Analog input 8
5	5,12 V Reference voltage (max. 20 mA for AN5/6 and AN7/8)

FRQ1: This socket provides an input for the first digital (frequency) signal.

Pin	Assignment
1	$U_B - 1$ V (wrong DC polarity protected; $R_i = 220 \Omega$)
2	Ground
3	Digital input 1 ($R_i = 100 \text{ k}\Omega$ against 5 V)
4	

FRQ2: This socket provides an input for the second digital (frequency) signal.

Pin	Assignment
1	$U_B - 1$ V (wrong DC polarity protected; $R_i = 220 \Omega$)
2	Ground
3	Digital input 2 ($R_i = 100 \text{ k}\Omega$ against 5 V)
4	

FRQ3: This socket provides an input for the third digital (frequency) signal.

Pin	Assignment
1	$U_B - 1$ V (wrong DC polarity protected; $R_i = 220 \Omega$)
2	Ground
3	Digital input 3 ($R_i = 100 \text{ k}\Omega$ against 5 V)
4	