

Table for DMX mode "1 channel" - binary principle -

Channel 1...6	DMX value %	Channel 1...6	DMX value %
000000	0 % (0.0000 % ... 1.5625 %)	000001	51 % (50.0000 % ... 51.5625 %)
100000	2 % (1.5625 % ... 3.1250 %)	100001	52 % (51.5625 % ... 53.1250 %)
010000	4 % (3.1250 % ... 4.6875 %)	010001	54 % (53.1250 % ... 54.6875 %)
110000	5 % (4.6875 % ... 6.2500 %)	110001	55 % (54.6875 % ... 56.2500 %)
001000	7 % (6.2500 % ... 7.8125 %)	001001	57 % (56.2500 % ... 57.8125 %)
101000	8 % (7.8125 % ... 9.3750 %)	101001	59 % (57.8125 % ... 59.3750 %)
011000	10 % (9.3750 % ... 10.9375 %)	011001	60 % (59.3750 % ... 60.9375 %)
111000	12 % (10.9375 % ... 12.5000 %)	111001	62 % (60.9375 % ... 62.5000 %)
000100	13 % (12.5000 % ... 14.0625 %)	000101	63 % (62.5000 % ... 64.0625 %)
100100	15 % (14.0625 % ... 15.6250 %)	100101	65 % (64.0625 % ... 65.6250 %)
010100	16 % (15.6250 % ... 17.1875 %)	010101	66 % (65.6250 % ... 67.1875 %)
110100	18 % (17.1875 % ... 18.7500 %)	110101	68 % (67.1875 % ... 68.7500 %)
001100	20 % (18.7500 % ... 20.3125 %)	001101	70 % (68.7500 % ... 70.3125 %)
101100	21 % (20.3125 % ... 21.8750 %)	101101	71 % (70.3125 % ... 71.8750 %)
011100	23 % (21.8750 % ... 23.4375 %)	011101	73 % (71.8750 % ... 73.4375 %)
111100	24 % (23.4375 % ... 25.0000 %)	111101	74 % (73.4375 % ... 75.0000 %)
000010	26 % (25.0000 % ... 26.5625 %)	000011	76 % (75.0000 % ... 76.5625 %)
100010	27 % (26.5625 % ... 28.1250 %)	100011	77 % (76.5625 % ... 78.1250 %)
010010	29 % (28.1250 % ... 29.6875 %)	010011	79 % (78.1250 % ... 79.6875 %)
110010	30 % (29.6875 % ... 31.2500 %)	110011	80 % (79.6875 % ... 81.2500 %)
001010	32 % (31.2500 % ... 32.8125 %)	001011	82 % (81.2500 % ... 82.8125 %)
101010	34 % (32.8125 % ... 34.3750 %)	101011	84 % (82.8125 % ... 84.3750 %)
011010	35 % (34.3750 % ... 35.9375 %)	011011	85 % (84.3750 % ... 85.9375 %)
111010	37 % (35.9375 % ... 37.5000 %)	111011	87 % (85.9375 % ... 87.5000 %)
000110	38 % (37.5000 % ... 39.0625 %)	000111	88 % (87.5000 % ... 89.0625 %)
100110	40 % (39.0625 % ... 40.6250 %)	100111	90 % (89.0625 % ... 90.6250 %)
010110	41 % (40.6250 % ... 42.1875 %)	010111	91 % (90.6250 % ... 92.1875 %)
110110	43 % (42.1875 % ... 43.7500 %)	110111	93 % (92.1875 % ... 93.7500 %)
001110	45 % (43.7500 % ... 45.3125 %)	001111	95 % (93.7500 % ... 95.3125 %)
101110	46 % (45.3125 % ... 46.8750 %)	101111	96 % (95.3125 % ... 96.8750 %)
011110	48 % (46.8750 % ... 48.4375 %)	011111	98 % (96.8750 % ... 98.4375 %)
111110	49 % (48.4375 % ... 50.0000 %)	111111	FF % (98.4375 % ..100.0000 %)

OUTPUTS: 6 potential-free relay contact outputs (max. 1A) at SUB-D 25pin connector.

ATTENTION! For safety reasons do not feed main power voltage 110 / 230 V in this connector!!

Pin layout:

Pin		
25	Contact	channel 1
13	Shutter	Channel 1
12	Opener	Channel 1
11	Contact	Channel 2
24	Shutter	Channel 2
23	Opener	Channel 2
22	Contact	Channel 3
10	Shutter	Channel 3
9	Opener	Channel 3
8	Contact	Channel 4
21	Shutter	Channel 4
20	Opener	Channel 4
19	Contact	Channel 5
7	Shutter	Channel 5
6	Opener	Channel 5
5	Contact	Channel 6
18	Shutter	Channel 6
17	Opener	Channel 6

1 & 14 +12V/200 mA (not galvanically isolated)
 2 & 15 Ground (not galvanically isolated)

DECLARATION OF CONFORMITY according to guide lines 89/336 EWG and 92/31 EWG:

Name of producer:	MA Lighting Technology GmbH
Address of producer:	Dachdeckerstr. 16 D-97297 Waldbüttelbrunn
<i>declares that the product</i>	
Name of product:	MA Demultiplexer 1_6 Channel Box
Type:	Demux 1_6 Box
<i>answers the following product specifications:</i>	
Safety:	EN60065, VDE0860, IEC65
EMV (EMC):	EN55103-1 (E1), EN50081-1 EN55103-2 (E2), EN50082-1

Additional informations: All DMX512 and analogue inputs and outputs must be shielded and the shielding must be connected to the ground of the corresponding plug.

Waldbüttelbrunn, 17.01.1995



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Safety Instructions:

1. Read all the instructions in the user manual.
2. Keep the user manual for later use.
3. Follow all the instructions on the unit.
4. Pull the plug before cleaning the unit; do not use any liquid or spray cleanser. Clean with a damp cloth.
5. Do not use the unit near water.
6. Do not put the unit on unstable tables etc.. It might fall down and get damaged.
7. If there are slots in the case for ventilation, do not cover these slots up because they guarantee the reliable use of the unit and protect it against overheating. Do not install the unit into a frame unless sufficient ventilation is guaranteed.
8. The unit is provided with a safety plug. This plug can only be used with safety sockets. These safety measures should by all means be followed. In case the plug does not fit into the socket (e.g. with old sockets), the socket should be replaced by an electrician.
9. Do not put any objects on the cable and make sure nobody steps on it.
10. In case you use an extension cord, make sure the sum of the power consumption of the connected units does not exceed the maximum power of the cord. The sum of the units plugged in the socket should not exceed 10 Ampere.
11. Do not spill any liquid over the unit. Do not put any objects through the slots of the unit, as these might get in contact with parts that are live or might cause short circuits. This may cause fires and shocks.
12. Do not service the unit yourself as parts that are live might be exposed when you open the case; you run the risk of getting shocked. All services should only be carried out by a specialist. **All maintenance and service works shall only be done by qualified technicians. This is especially valid for the use of the 6 relais contact outputs.**
13. If one of the following conditions occurs, please pull the plug and call the service:
 - A. Wire or plug is damaged or worn.
 - B. Liquid got into the unit.
 - C. The unit was exposed to rain or got damp.
 - D. The unit does not work properly even if you follow the instructions of the user manual.
 - E. The unit fell down and the case was damaged.
14. Only use cables which are marked safety proof.
15. Do not use any high-power walkie-talkies near the unit.