

Uppgjord (även faktaansvarig om annan) - Prepared (also subject responsible if other)		Nr - No.	
Sara Hedfors		POL-09:051	
Dokansv/Godk - Doc respons/Approved	Kontr - Checked	Datum - Date	Rev
		2009-09-11	A
			File

PCBs 7-SEGMENT

There are seven different standard PCBs, each with 7-segment characters in different sizes. The boards can be mounted into a display unit with arbitrary number of characters.

<u>Character height</u>	<u>Diodes/segment</u>	<u>Viewing distance</u>
60 mm	3	24 m
100 mm	6	40 m
200 mm	16	80 m
250 mm	20	100 m
330 mm	24	130 m
500 mm	59	200 m
1000 mm	198	400 m

The diodes are high brightness AlInGaP LEDs (type 1700 mC), with a viewing angle of 70° horizontally and 35° vertically. Standard colour is amber, 591 nm (optional colours: red, green, blue or white).

All 7-segment boards have automatic continuous adjustment of light intensity, enabling optimal visibility both day and night.

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CHARACTER HEIGHT 60 mm

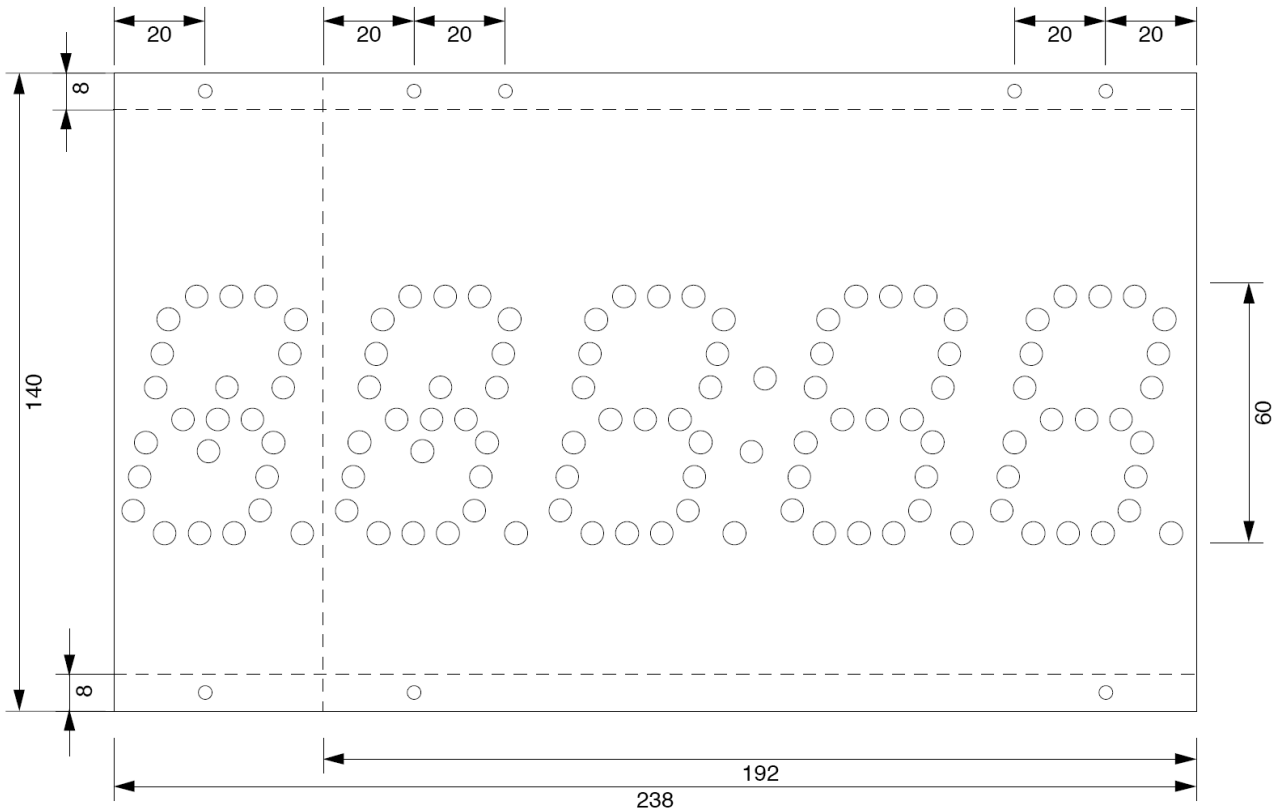
7-segment board with character height 60 mm gives a viewing distance of approximately 24 meters. Every segment consists of 3 diodes.

The PCB, 238x140 mm, consists of 5 characters. There is a possibility to crop the board to 4 characters, then 192x140 mm. To get more characters, several boards can be combined.

There exists a number of possible options to add extra segments:

- 1th character: plus sign (+) or dot (.)
- 2nd character: plus sign (+) or dot (.)
- 3rd character: colon (:) or dot (.)
- 4th character: dot (.)
- 5th character: dot (.)

Power (external transformer): 12 V AC/DC.
Maximum power consumption: 12 VA / board.



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CHARACTER HEIGHT 100 mm

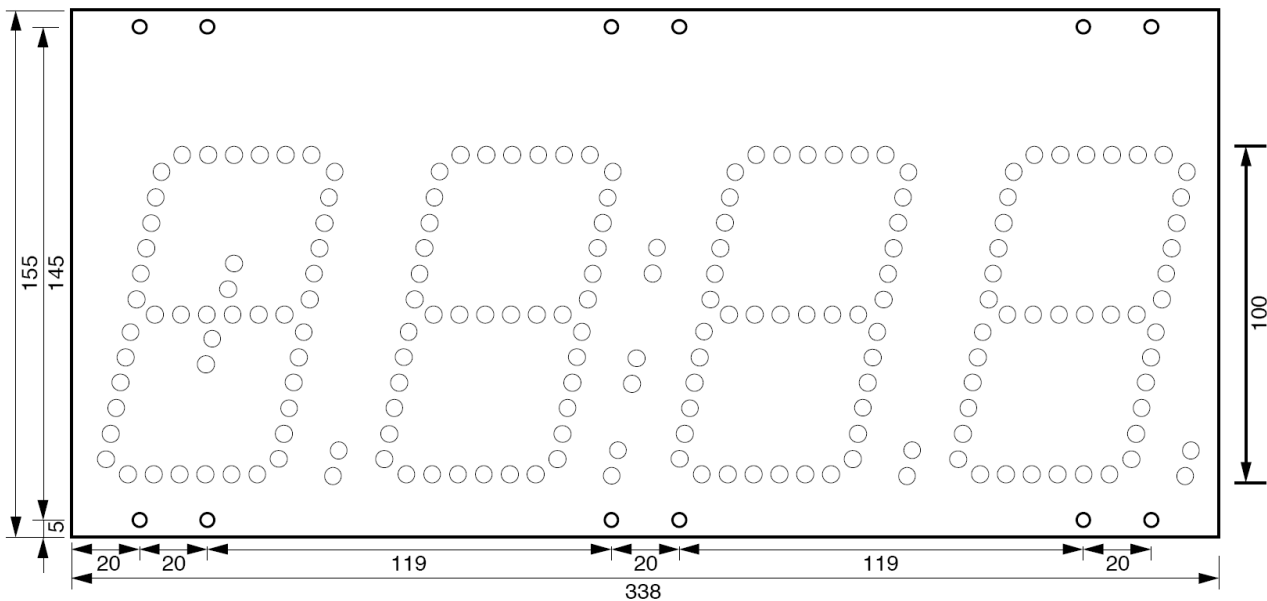
7-segment board with character height 100 mm gives a viewing distance of approximately 40 meters. Every segment consists of 6 diodes.

The PCB, 338x155 mm, consists of 4 characters. To get more characters, several boards can be combined.

There exists a number of possible options to add extra segments:

- 1th character: plus sign (+) or dot (.)
- 2nd character: colon (:) or dot (.)
- 3rd character: dot (.)
- 4th character: dot (.)

Power (external transformer): 12 V AC/DC.
Maximum power consumption: 20 VA / board.



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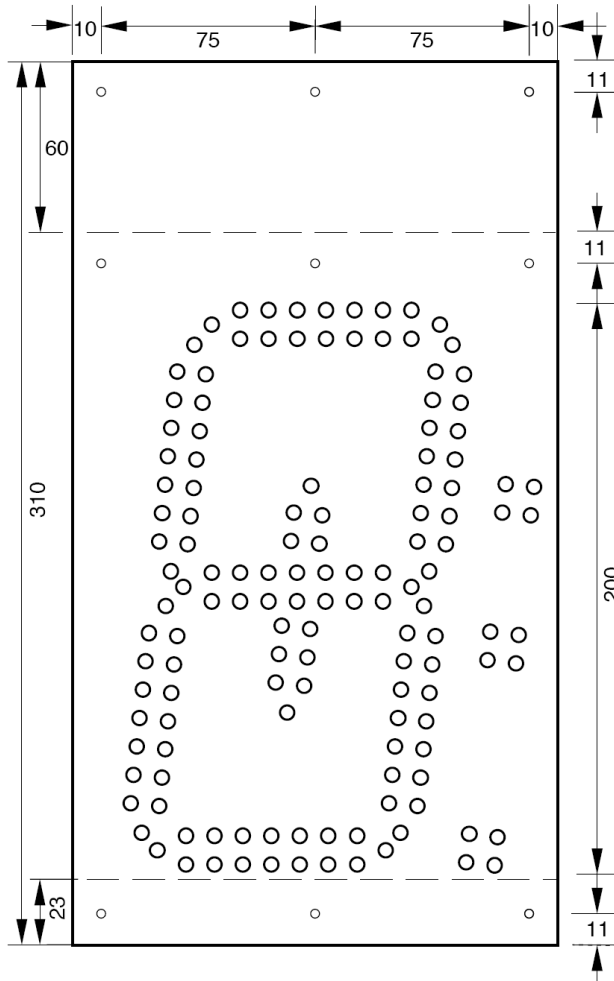
CHARACTER HEIGHT 200 mm

7-segment board with character height 200 mm gives a viewing distance of approximately 80 meters. Every segment consists of 16 diodes.

The PCB, 170x310 mm, consists of 1 character. There is a possibility to crop the board to 170x250 mm. Several boards are to be combined to achieve a line of characters. There exists a number of possible options to add an extra segment allowing a plus sign (+), colon (:) or dot (.).

Power: 12 V DC.

Maximum power consumption: 10 VA / board.



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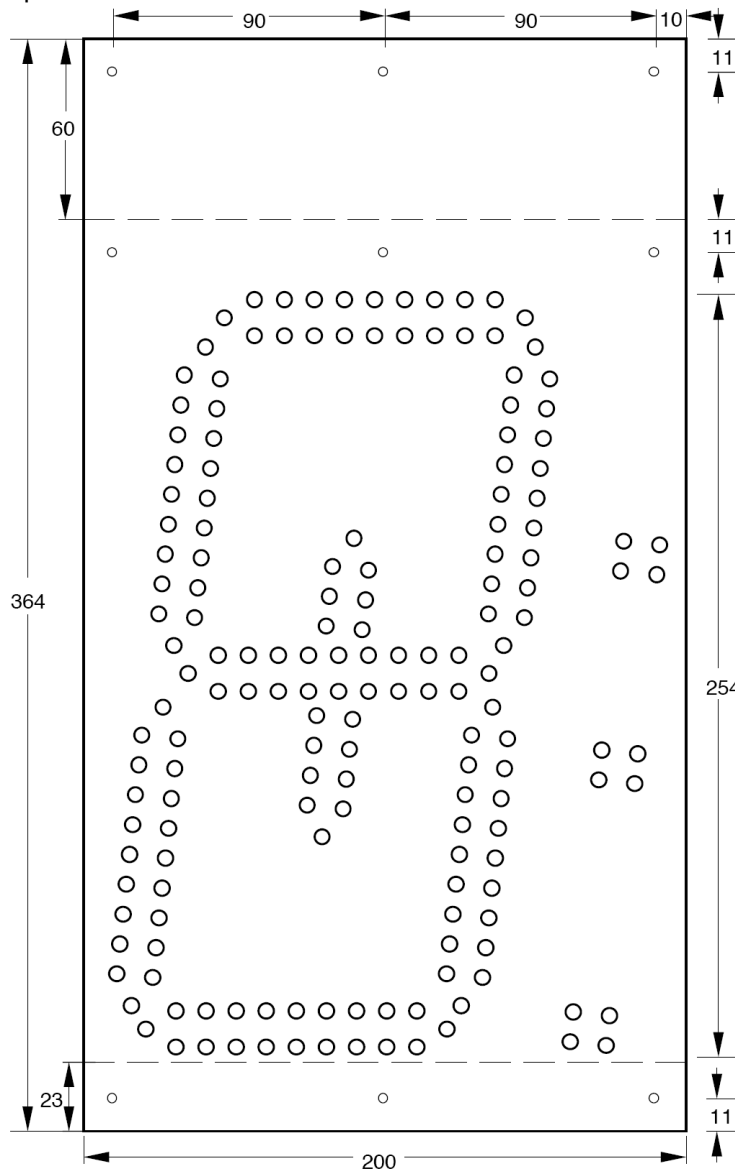
CHARACTER HEIGHT 250 mm

7-segment board with character height 250 mm gives a viewing distance of approximately 100 meters. Every segment consists of 20 diodes.

The PCB, 200x364 mm, consists of 1 character. There is a possibility to crop the board to 200x304 mm. Several boards are to be combined to achieve a line of characters. There exists a number of possible options to add an extra segment allowing a plus sign (+), colon (:) or dot (.).

Power: 12 V DC.

Maximum power consumption: 12 VA / board.



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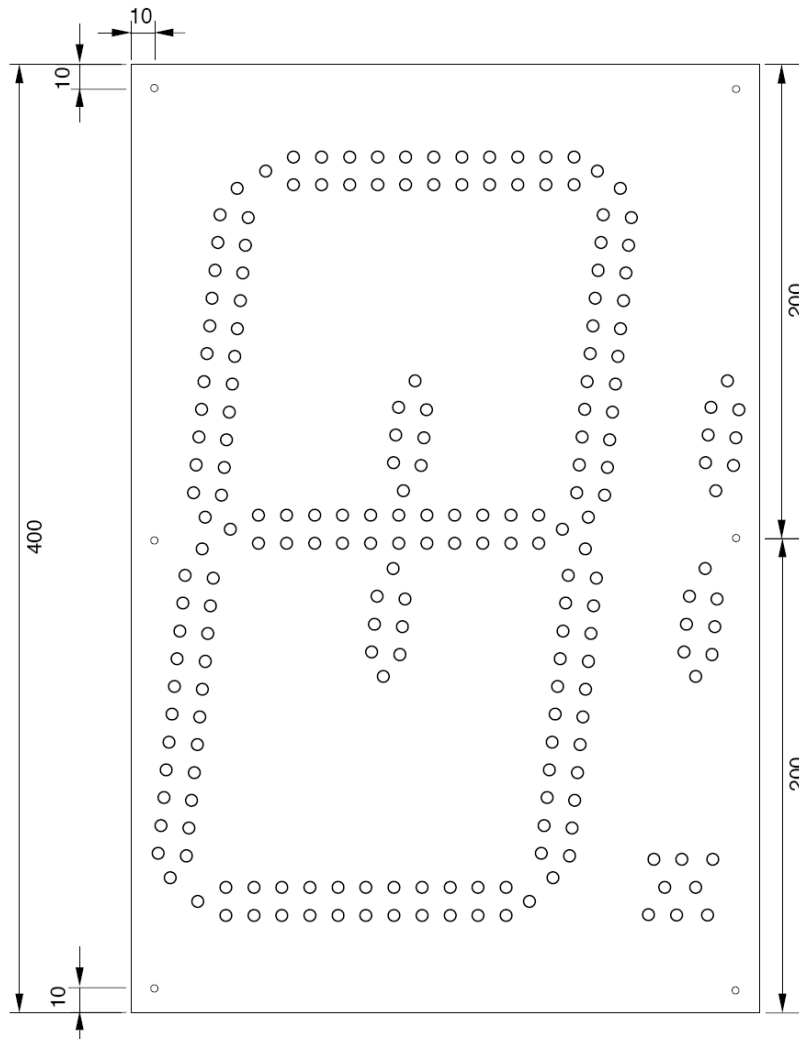
CHARACTER HEIGHT 330 mm

7-segment board with character height 330 mm gives a viewing distance of approximately 130 meters. Every segment consists of 24 diodes.

The PCB, 265x400 mm, consists of 1 character. Several boards are to be combined to achieve a line of characters. There exists a number of possible options to add an extra segment allowing a plus sign (+), colon (:) or dot (.).

Power: 12 V DC.

Maximum power consumption: 15 VA / board.



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CHARACTER HEIGHT 500 mm

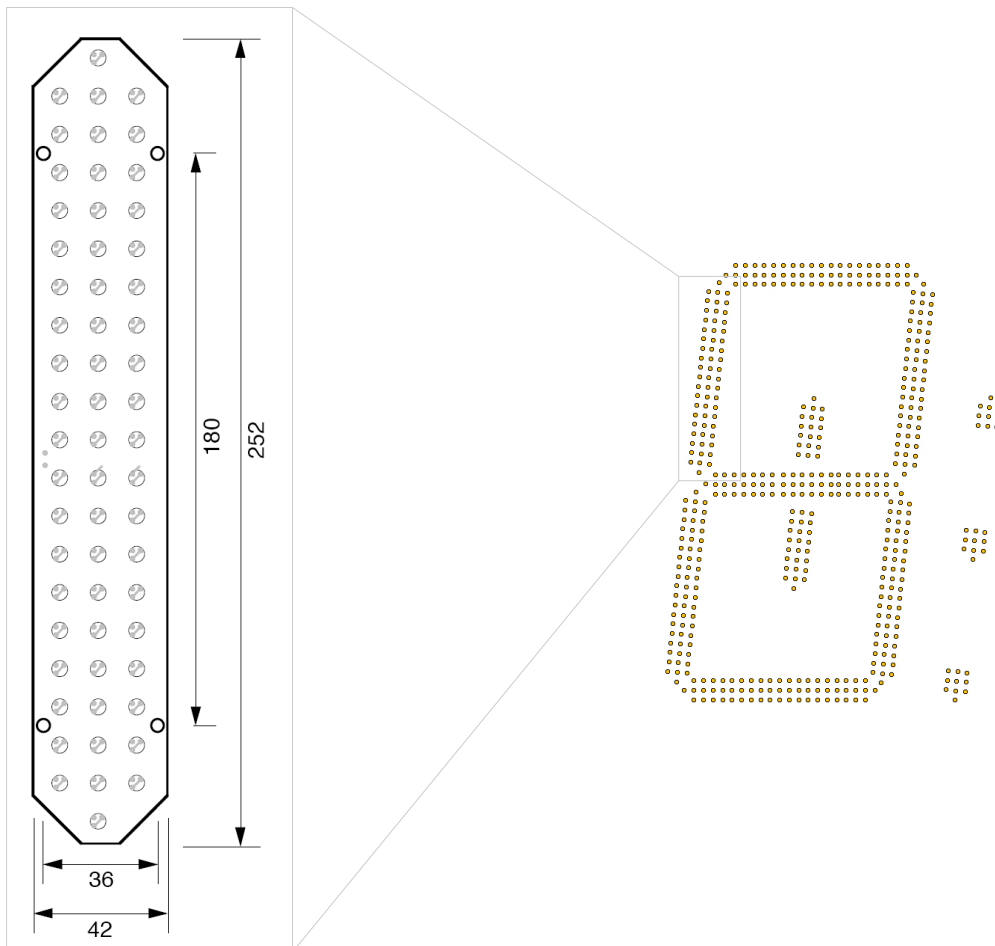
7-segment board with character height 500 mm gives a viewing distance of approximately 200 meters. Every segment consists of 59 diodes.

The PCB, 42x252 mm, consists of 1 segment. Seven boards (and possibly additional to allow plus sign, colon or dot) are to be combined to achieve a character.

External power board.

Power: 18 V DC.

Maximum power consumption: 6 VA / board, i.e. 42 VA / character.



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CHARACTER HEIGHT 1000 mm

7-segment board with character height 1000 mm gives a viewing distance of approximately 400 meters. Every segment consists of 198 diodes.

The PCB, 66x250 mm, consists of 1/2 segment. 14 boards (and possibly additional to allow plus sign, colon or dot) are to be combined to achieve a character.

External power board.

Power: 18 V DC.

Maximum power consumption: 8 VA / board, i.e. 112 VA / character.

