



Matrix programme board

Order Codes 145-328 to 145-332

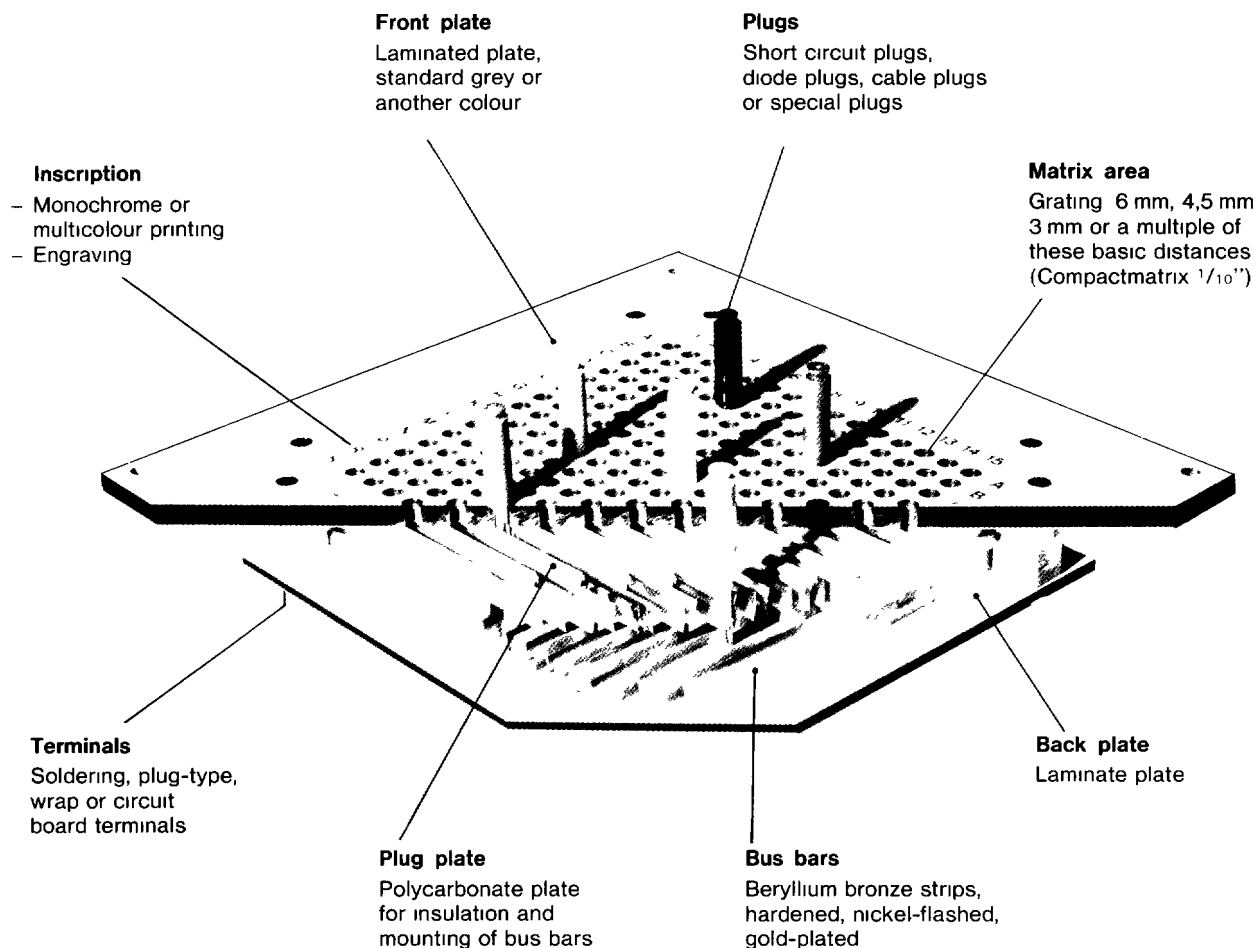
**Farnell
Technical
Data
Service**

The Ghelmetti matrix programme board consists of two parallel decks with bus bars rightangled to each other. The X and Y co-ordinates can be connected by means of contact plugs.

This matrix board is a single and many-sided programming device. The following points are worthy of special notice:

- Simplicity of the programming
- Easy examination of the programme
- Wear resistant

Construction

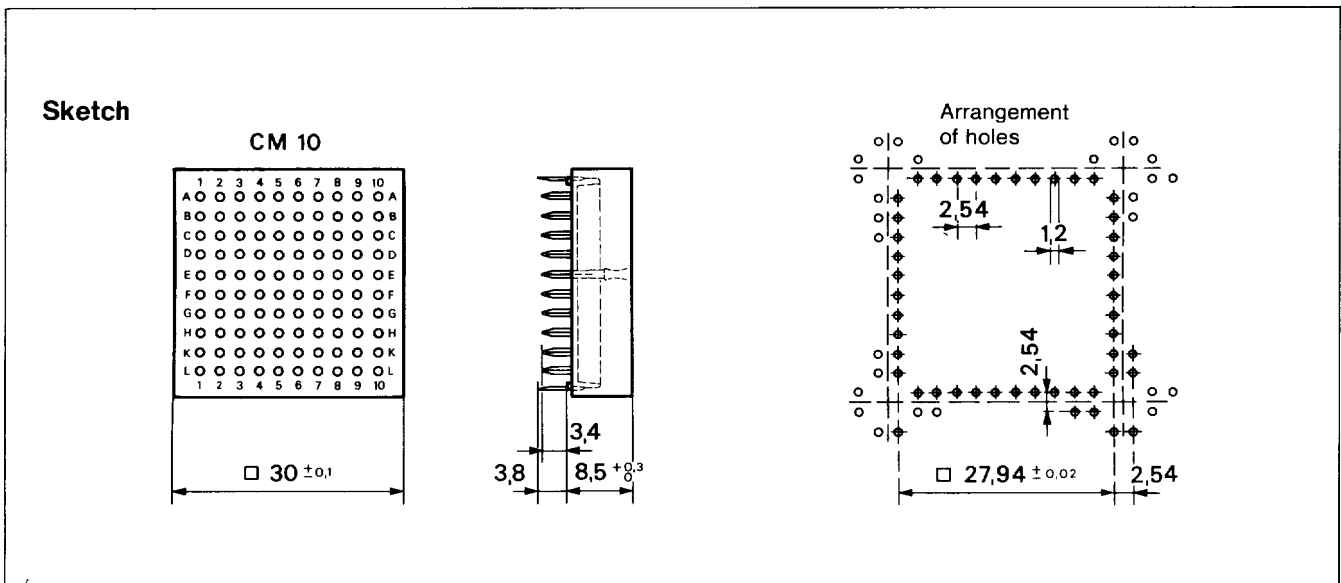


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Compactmatrix

The «Compactmatrix» is a miniature matrix board suited for printed circuit board mounting. The compact design of this matrix board permits a pin spacing of $\frac{1}{10}$ " (2,54 mm), which corresponds to the usual standards for electronic components.

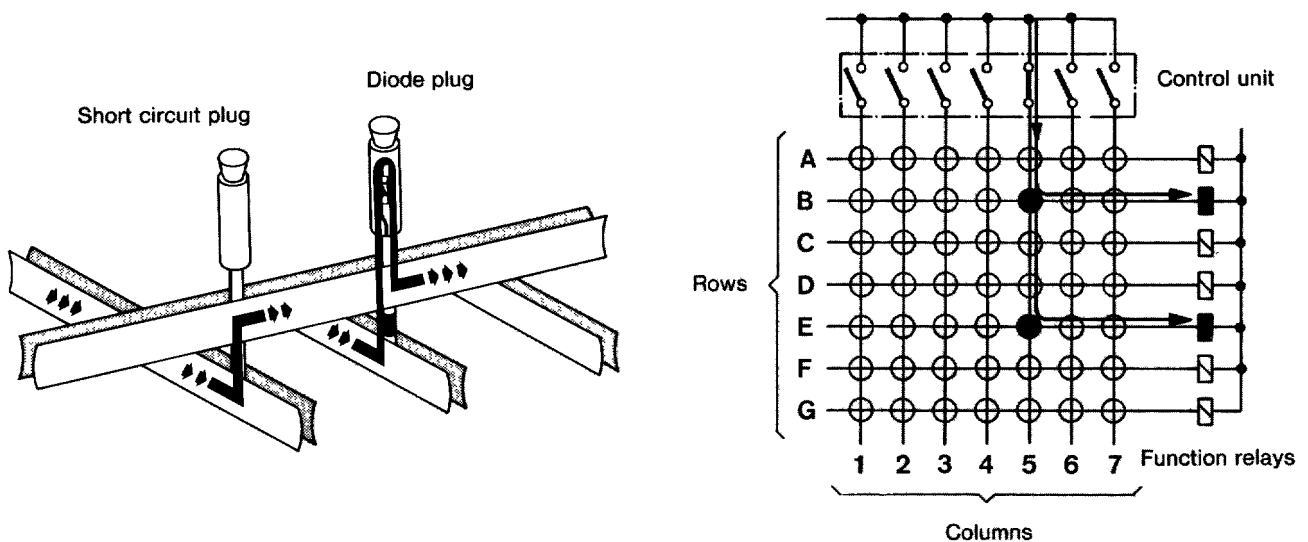


Technical data

Order Code 145-328	Compactmatrix
Grating	2,54 mm
* Operating voltage	50 V
** Thermal rated current	2 A
Contact resistance (bus bar–plug–bus bar)	1 mΩ
Resistance of a bus bar pair per grating	3 mΩ
Insulation resistance of parallel bus bar pairs over 10 plug points, at an air humidity of 80–95 %	10 ⁶ MΩ
Insulating material	Polycarbonate
Air and surface–leakage paths	min 0,4 mm
Test voltage	500 V
Working temperature	–20 .. + 60° C
Capacity of two parallel bus bar pairs, distance 10 plug points	~ 3 pF
Capacity of two crossed bus bar pairs, distance 10 plug points	~ 2 pF
Bus bars	Beryllium copper, hardened, gold plated
Contact force	> 50 p
Plugs	Brass contact pin, gold plated
Diameter of contact pins	1,22 mm

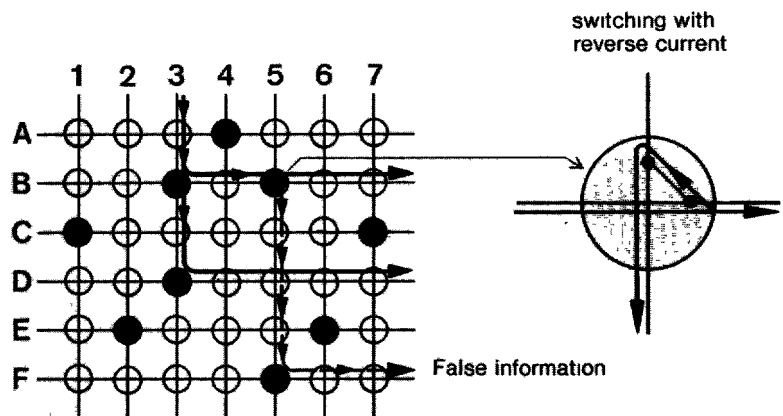
* For voltages of up to 50 V AC or 72 V DC respectively the plugs may only be inserted or removed in the «switched off» condition

** Diode plugs and short circuit plugs may not be changed when the device is live, i.e. they may be changed only in absence of current



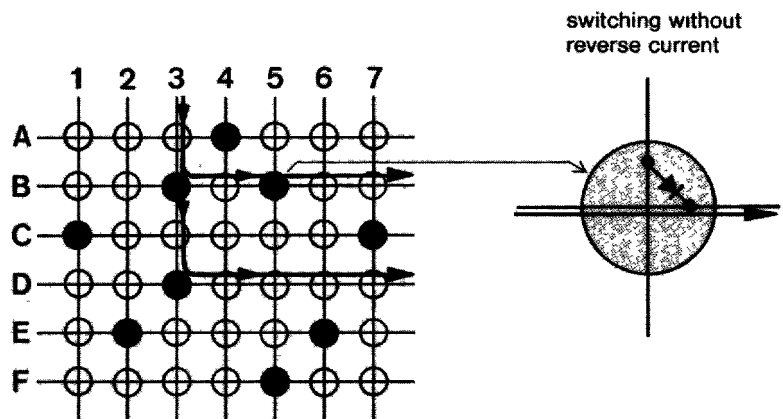
Switching with short circuit plugs

If more than one short circuit plug is used per row or per column reverse currents may result. This leads to false informations at the output of the matrix programme board







Switching with diode plugs

Diode plugs are used to prevent the occurrence of reverse currents



Code for standard plugs Compactmatrix

Order number		679	.		.	0	.	
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Description				Sleeve colour	
Diode plug		210		02	red
Short circuit plug		310		05	green
Sleeve length 8 mm				09	white
Short circuit plug		2			
Diode plug		6			
Polarity from row (+) to column (-)				0	Short circuit plug
Polarity from column (+) to row (-)				1	Diode 1 N 4148 *V _R max = 75 V *I _F max = 150 mA

*Data as supplied by the diode manufacturers. It is recommended to limit operational values of voltage and current to approx. one third of the listed values.
Care should be taken to avoid an overstressing of the diodes by the voltage surges due to switching of inductive loads.

679-310-200-09 = 145-330
 679-210-610-02 = 145-331
 679-210-705-05 = 145-332

Plug extractor Order Code 145-329

