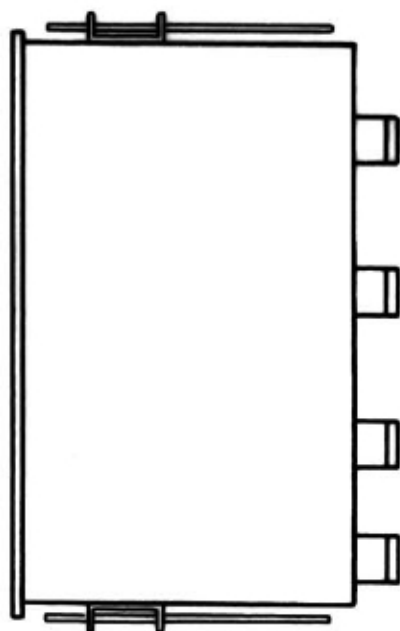
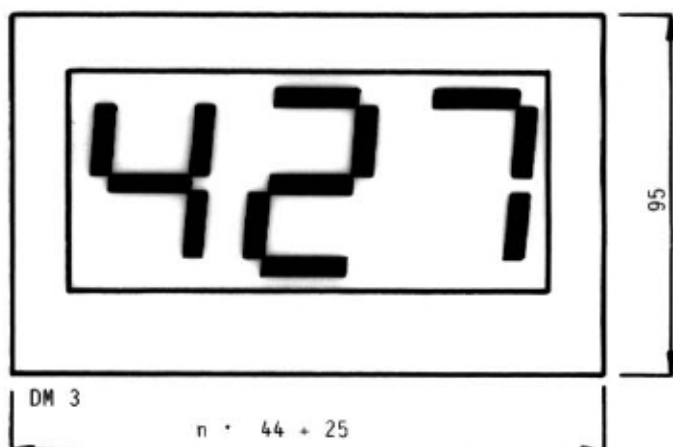
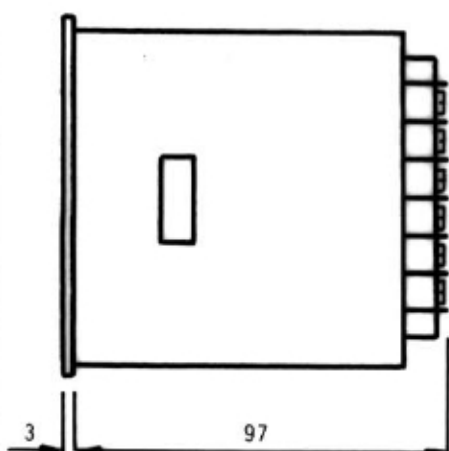


Maxiled

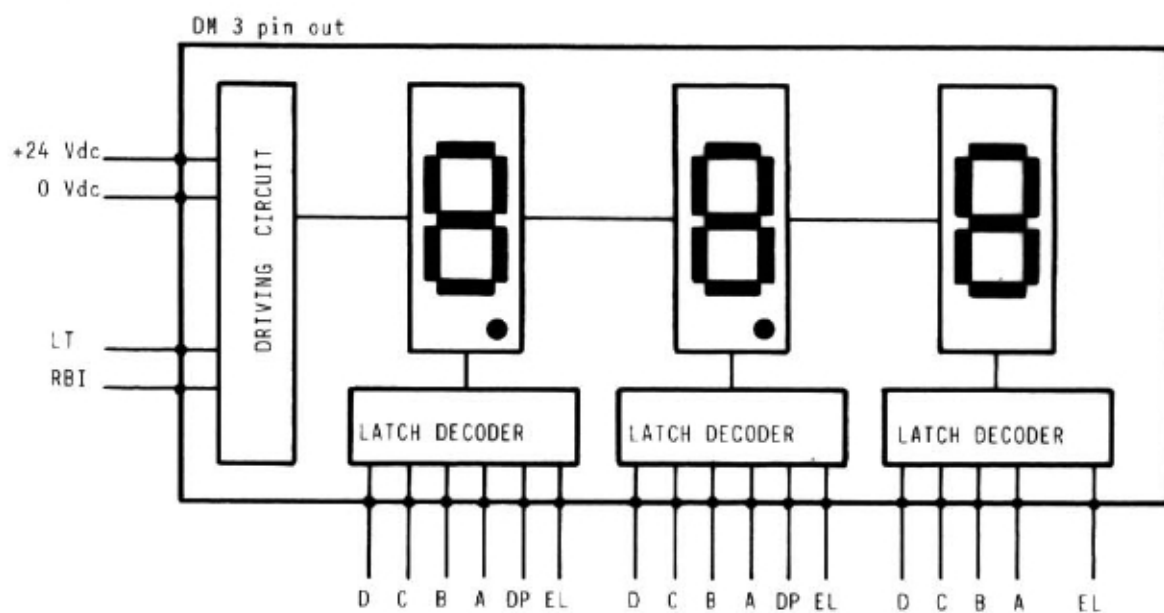
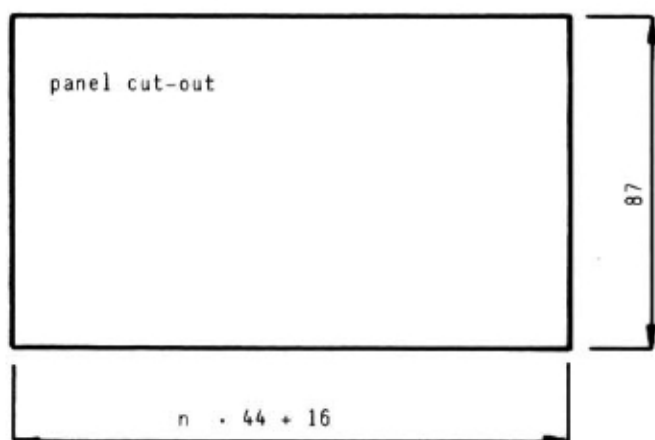
DM 50

1 up to 6 digits display - for 24 Vdc logics



scale drawing 1 : 2

n = number of digits



GENERAL SPECIFICATIONS

DM Giant Displays are numerical 7 segment LED displays properly suited to be driven by the 24V outputs of the programmable controllers (PLC). They are operated by the BCD code and the multiplex data transmission is enabled by the EL control line. All inputs are connected to +24Vdc (jumper PR) or 0Vdc (jumper PS) via internal pull up or pull down resistors.

DM 50 Displays are available in six different models from one up to six digits.

TECHNICAL DATA (values referred to 1 digit)

Front panel colour	- black mat finishing
Light colour	- red
Digit size	- 50 mm.
Supply voltage Vdc	- 24 V \pm 10%
Supply current Idc	- 150 mA typ.
Operating temperature	- 0°C \pm 50°C
Connections	- screw terminals

INPUT DATA (DCBA; EL; RBI; LT)

Input voltage Vin ("0")	- min. 0 V \pm max. 4 V or open (with PS jumper)
Input voltage Vin ("1")	- min. 11 V \pm max. 24 V (with PS jumper)
Input voltage Vin ("0")	- min. 0 V \pm max. 4 V (with PR jumper)
Input voltage Vin ("1")	- min. 11 V \pm max. 24 V or open (with PR jumper)
Input current Iin ("0")	- 1 mA typ. (Vin = 2,7 V)
Input current Iin ("1")	- 9 mA typ. (Vin = 24 V)
Overvoltage protection	- up to + 60 Vpp - 10 m.sec. typ. lenght

NOTE: The decimal point DP must be controlled externally (DP on + 24 Vdc \rightarrow Decimal Point on).

TRUTH TABLE

INPUTS							DISPLAY	
D	C	B	A	EL	RBI	LT	0-9	\pm 1
0	0	0	0	0	1	1	0	+1
0	0	0	1	0	1	1	1	1
0	0	1	0	0	1	1	2	
0	0	1	1	0	1	1	3	-1
0	1	0	0	0	1	1	4	
0	1	0	1	0	1	1	5	-
0	1	1	0	0	1	1	6	+
0	1	1	1	0	1	1	7	
1	0	0	0	0	1	1	8	
1	0	0	1	0	1	1	9	
X	X	X	X	1	1	1	stored	
X	X	X	X	X	0	1	blank	
X	X	X	X	X	X	0	8 (test)+1	

"1" = high logic level

"0" = low logic level

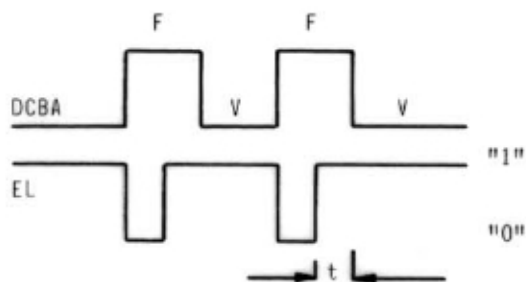
"X" = "0" or "1"

EL = Enable latch

RBI = Blanking input

LT = Lamp test

Multiplex data operation
timing diagram (1 digit)



V = changing data

F = data cannot change

t = 0.1 ms. min.

NOTE: With binary input > "1001" the display will be blank.

ORDERING CODE

SERIE _____ DM50/R 999 / PS
 Display: 9; 99; 999; 9999; 99999; 999999; 9999999; +19; +199; +1999; etc.
 With pull down resistors = PS ; with pull up resistors = PR

Subject to change without notice.