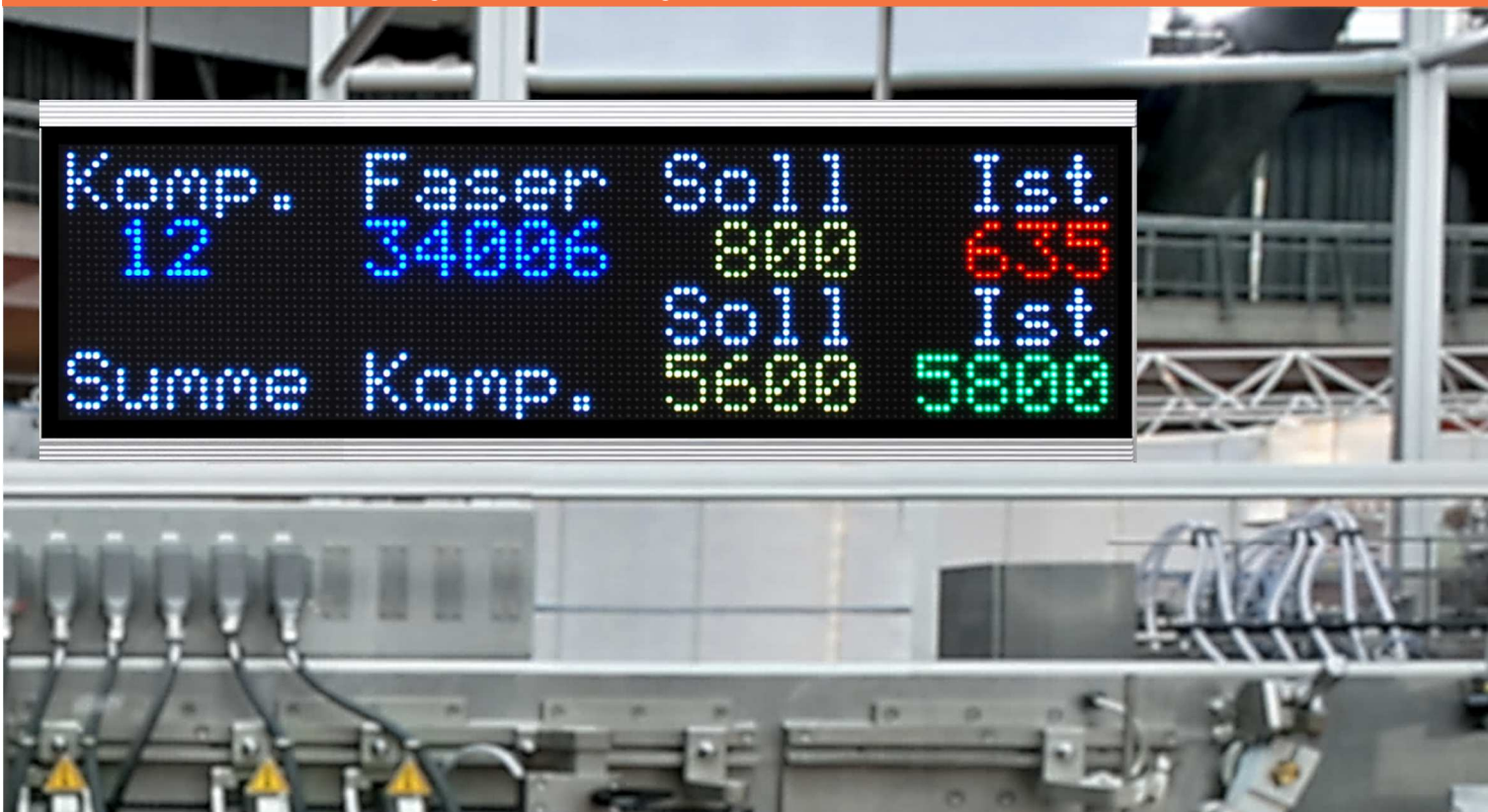


LED Text Displays Series LX Indoor/Outdoor

DISPLAYS
made
in
Germany

Seit mehr als 25 Jahren Ihr Partner für Aufgaben der Visualisierung



- Modular LED matrix displays
- 1-4 lines displayable
- Full color LEDs with excellent luminosity
- Indoor and outdoor displays (IP54 / IP65)
- Readability even in difficult lighting conditions
- Extremely wide viewing angle
- Low power consumption
- Simple open data protocol for industrial use
- Long service life, maintenance-free
- Large number of different control options
- Easy construction

LED Text Displays Series LX

The LED text display family LX RGB is ideal for the visualization of situation-related data in the industry indoor and outdoor. The used LED matrix modules are characterized by extremely bright SMD LEDs which provide a clear readability even in difficult light conditions, such as direct sunlight. The large viewing angle ensures an excellent reading experience.

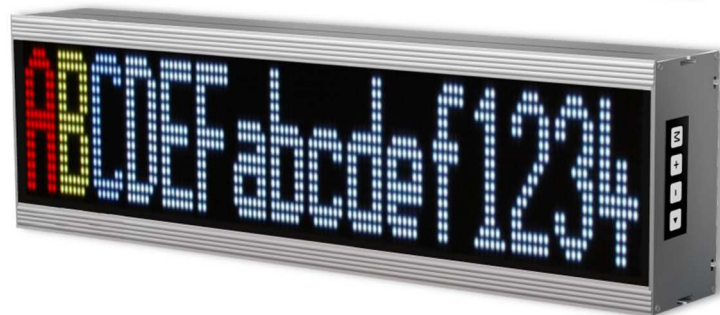
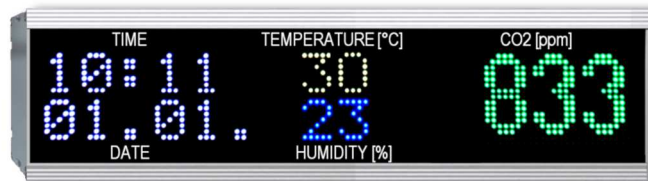
For the presentation of

- Machine conditions
- Measurement data
- Process flows
- Temperatures / weights
- Operating data
- Warnings and alerts
- Fault messages
- Text information
- Targets / actual values



Applications

- Industry
- Machine / Plant engineering
- Traffic / Transport / Logistics
- Advertising / Trade Fairs
- Sports
- Building Technology
- Work Safety
- Solar Energy



Technical Data

	INDOOR LED Matrix Displays LX	OUTDOOR LED Matrix Displays LX
LED type	LED-Matrix Display	
LEDs	LEDs with excellent luminosity and a wide viewing angle	
Pixel Pitch	3 mm / 4 mm / 6 mm / 8 mm / 10 mm Further sizes available	6 mm / 10 mm Further sizes available
Control / Connection	<ul style="list-style-type: none"> - Simple open data protocol - LX VESTA operating software - VisuLight operating software - Integrated web server 	
Device	Completely ready-to-connect device	
Display sizes	Freely selectable display sizes thanks to the modular structure Displays consisting of LED matrix modules in the following sizes: 16 x 32 LEDs / 32 x 32 LEDs / 32 x 64 LEDs	
Housing	Robust aluminum housing, anodized silver or any RAL color, option: stainless steel housing	
Front glass	Acrylic glass, reflex-free Option: safety glass or impact-resistant polycarbonate glass	
Protection	Indoor IP54 also available: IP65	Outdoor IP65
Readability	Readable from one side; optionally readable on both sides	
Brightness adjustment	Manual brightness adjustment	Automatic brightness adjustment
Mounting	Easy mounting	
Mounting aids	Wall mounting kit, suspension eyelets or pole mounting accessories	
Power supply	110 - 230 VAC, 50/60 Hz oder 18-36 VDC, option: further power supplies ...	
Temperature range	0 ...60 °C Extended temperature range on request	-20 ... 60 °C
Interfaces	<ul style="list-style-type: none"> ✓ RS 232 / RS 485 ✓ Ethernet TCP/IP, EtherNet/IP ✓ CAN-Bus ✓ PROFIBUS DP ✓ PROFINET ✓ MODBUS, MODBUS TCP ✓ Bluetooth ✓ WLAN ✓ Radio Link ✓ DVI 	
Further control options	<ul style="list-style-type: none"> ✓ Analogue 0...10, 4...20mA ✓ Timer ✓ Frequency counter ✓ Impulse counter ✓ DCF-Receiver ✓ Temperature sensor ✓ Humidity sensor 	

Control / Connection

Simple open data protocol Data connection to external systems

For the connection to external systems, all relevant display and transfer functions have been combined in a simple data transfer protocol. The protocol ensures the control of the display and the transfer of text information from various systems and processes. A large selection of fonts and font sizes specially designed for LED displays are available. All representations can be designed by yourself using command codes. There is no need to use additional PC operating software.

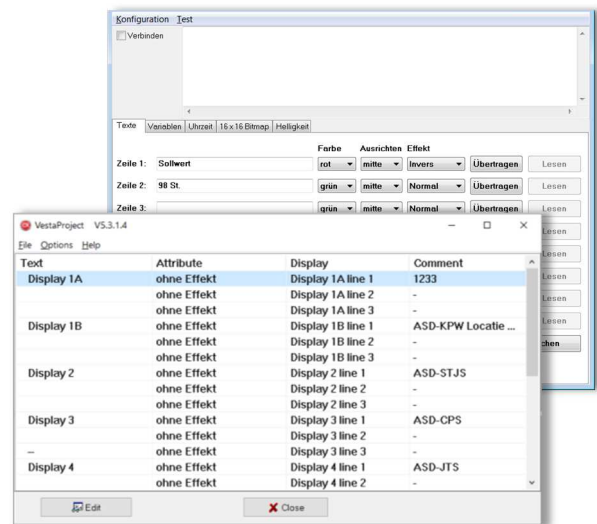


PC operating software LX VESTA for industrial applications

For a wide variety of industrial applications a simple operating software is available. The PC operating software enables information to be entered and various effects to be displayed (e.g. ticker, flashing ...).

At a glance:

- Configuration of the display
- Enter / save / transfer to the display
- Insertion of real-time information, such as time, date and external measured values
- Setting of fade-in effects

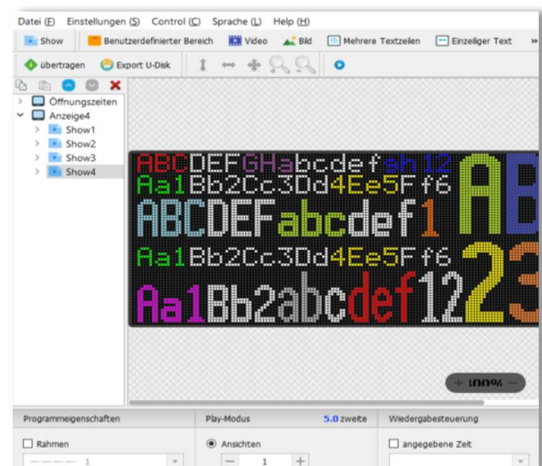


VisuLight PC software for advertising applications

The VisuLight PC software offers many useful functions for successful advertising and was specially developed for advertising purposes. The PC software offers countless display options and fade-in effects for large-scale visualizations - from the simple display of text information to the fade-in of videos.

At a glance:

- Creation of processes and product shows and presentations
- Use of Microsoft fonts
- View photos (JPG, PNG, BMP ...) and videos
- Creation of timelines
- Setting a variety of fade-in effects and formatting



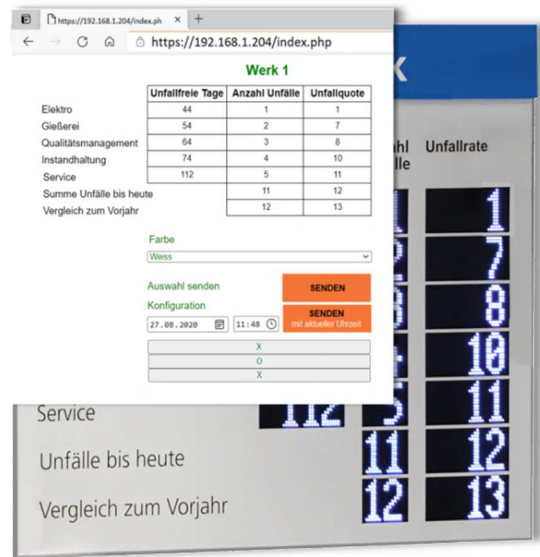
Android App „LightOn“

The new Android App "LightOn" the Visual Electronic enables the control and operation of your LED display wireless via Bluetooth. Just use our new Android app e.g. on your existing smartphone or Tablet PC. Avoid complicate cabling or the connection via a WLAN.



Web server Integrated web server

The LED displays of the LX series can be equipped with a web server. The control and transfer of the information then takes place very easily via a standard web browser. The user can access the web interface / web application from the PC or any mobile device. The LED display is equipped with an Ethernet or WLAN interface and connected to the network.



Project-specific connection

It would be a pleasure to take on this task for you and deliver You a visualization system, which the complete software integration into your system.



Mounting - Fastening grooves

Two to four fastening grooves on the housing of the LED display make installation easier for you.

In addition to the standard BS L mounting kit, which is part of the scope of delivery, additional mounting aids such as wall mounting brackets, suspension eyes, swivel frames and installation mounting aids are available.



Configuration

A membrane keyboard on the housing is used to configure the LED displays. Configurations, parameters, addresses, decimal points and different operating modes can be set in a simple manner.



Dimension sign

On request, the LED displays can be equipped with any dimension symbol in the form of a foil label. So that the entire LED matrix area is still available, the dimension symbol is positioned to the right of the LED matrix area. Please note that this increases the overall length of the device as follows:



g	kg	t	T	°C	K	%	h	l	lb
Hz	kHz	Hz	rpm	V	S	Pa	kPa	$\frac{m}{s}$	$\frac{l}{h}$
mm ²	cm	cm ²	cm ³	m	m ²	km	A	mm	mm ²
kWh	MW	MWh	pH	$\frac{kg}{min}$	$\frac{Stk}{h}$	$\frac{m}{h}$	$\frac{km}{h}$	W	kW

How do you find the right display size?

- How do you find the right display size?
- Select the desired maximum reading distance and the correct character height.
- Select the required number of lines and the required number of characters per line.
- The name of the appropriate display can be found on the left: example.

LX 3264P10: 2 lines x 8 characters, readable up to 65 meter



			Lx 6 x 8	Lx6x10	Lx8x16	Lx7x24	Lx16x32
Pixel pitch P6 : 6 mm	Maximum reading distance		20m	25m	40m	60m	90m
	Character height		4,2 cm	5,4 cm	8 cm	12 cm	18 cm
Pixel pitch P10 : 10 mm	Maximum reading distance		35m	45m	65m	100m	150m
	Character height		7 cm	9 cm	13 cm	21 cm	30 cm
LX 1632 P..	16 x 32 LEDs	Max. number of lines	2	1	1	-	-
		Max. number of characters/line	5	5	4	-	-
LX 1664 P..	16 x 64 LEDs	Max. number of lines	2	1	1	-	-
		Max. number of characters/line	10	10	8	-	-
LX 1696 P..	16 x 96 LEDs	Max. number of lines	2	1	1	-	-
		Max. number of characters/line	16	16	12	-	-
LX 1612 P..8	16 x 128 LEDs	Max. number of lines	2	1	1	-	-
		Max. number of characters/line	21	21	16	-	-
LX 3232 P..	32 x 32 LEDs	Max. number of lines	4	2	2	1	1
		Max. number of characters/line	5	5	4	4	2
LX 3264 P..	32 x 64 LEDs	Max. number of lines	4	2	2	1	1
		Max. number of characters/line	10	10	8	8	4
LX 3296 P..	32 x 96 LEDs	Max. number of lines	4	2	2	1	1
		Max. number of characters/line	16	16	12	12	6
LX 32128 P..	32 x 128 LEDs	Max. number of lines	4	2	2	1	1
		Max. number of characters/line	21	21	16	16	8

Models / Order codes

The below listed order code just shows a first selection of possible solutions. Due to the modular design countless other sizes and designs are available. Displays with 16 vertical LED pixels are suitable for displaying one and two line information. Displays with 32 vertical LED pixels can display one, two, three and four lines information.

Order code

Height: Number of LEDs

12 LEDs (*1)	12
16 LEDs (*1)	16
32 LEDs	32
48 LEDs (*1)	48
64 LEDs	64
Multiple of 16, 32	X

Width: Number of LEDs

32 LEDs	32
64 LEDs	64
96 LEDs	96
128 LEDs	128
160 LEDs	160
192 LEDs	192
224 LEDs	224
256 LEDs	256
288 LEDs	288
Multiple of 32	Z

Pixel pitch

3 mm	P3
4 mm (*2)	P4
5 mm (*2)	P5
6 mm	P6
8 mm (*2)	P8
10 mm	P10

LX 16 64 P6 H O .P

Interface/function

.Z	RS 232
.V	RS 485
.E	Ethernet TCP/IP
.C	CAN-Bus
.P	Profibus
.PN	Profinet
.EI	EtherNet/IP
.MB	Modbus
.MBT	Modbus TCP
.B	Bluetooth
.WL	WLAN
.USB	USB
.A	Analog
.T	Impuls
.C	Temperatur
.D	Speed
.DVI	DVI
.RL	Radia Link

Usage area

I	INDOOR IP54
O	OUTDOOR IP65

Power supply

G	24 VDC
H	230 VAC

(*1) only for LED displays with a pixel pitch of 6 mm available

(*2) on request

On the following pages we present the most interesting LED displays from our point of view with a pixel pitch of 6 mm and 10 mm.

1 LINE TEXT DISPLAYS – Indoor

Pixel Pitch 6 mm

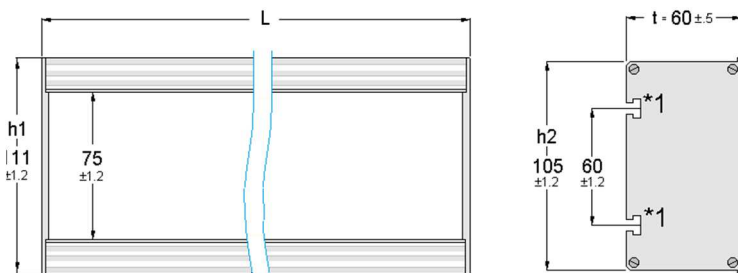


	LX 1232P6	LX 1264P6	LX 1296P6	LX 12128P6	LX 12160P6
LED colour	RGB	RGB	RGB	RGB	RGB
LED pixel pitch	6 mm	6 mm	6 mm	6 mm	6 mm
LED Matrix	12 x 32 LEDs	12 x 64 LEDs	12 x 96 LEDs	12 x 128 LEDs	12 x 160 LEDs
Display height x width (mm)	95 x 192	95 x 384	95 x 576	95 x 768	95 x 960
Characters 4,2 cm rd <20m	1 line x 5 characters	1 line x 10 characters	1 line x 16 characters	1 line x 21 characters	1 line x 26 characters
Characters 5,4 cm, rd <25m	1 line x 5 characters	1 line x 10 characters	1 line x 16 characters	1 line x 21 characters	1 line x 26 characters
Housing	Aluminum anodised	Aluminum anodised	Aluminum anodised	Aluminum anodised	Aluminum anodised
Front	Acrylic glass reflex-free	Acrylic glass reflex-free	Acrylic glass reflex-free	Acrylic glass reflex-free	Acrylic glass reflex-free
Housing H x L x T (mm)	111 x 220 x 60	111 x 420 x 60	111 x 610 x 60	111 x 800 x 60	111 x 1000 x 60
Weight (approx.)	1,4 kg	2,6 kg	3,8 kg	5,0 kg	6,3 kg
Power supply 230 VAC (H), alternativ: 24 VDC (G)	110-230 VAC 18-36 VDC	110-230 VAC 18-36 VDC	110-230 VAC 18-36 VDC	110-230 VAC 18-36 VDC	110-230 VAC 18-36 VDC
Interface (integrated)	RS232/RS485	RS232/RS485	RS232/RS485	RS232/RS485	RS232/RS485
Protection IP54	IP54	IP54	IP54	IP54	IP54
Ø / Max. Consumption	3 W / 7 W	5 W / 13 W	8 W / 19 W	10 W / 25 W	13 W / 32 W

(rd = reading distance)

Dimensions

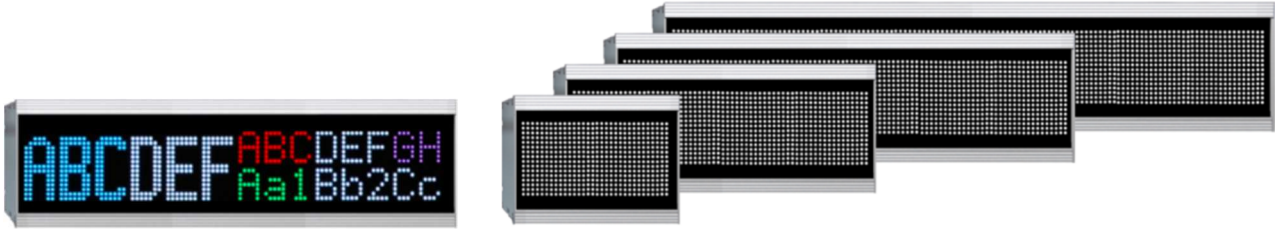
	Height(h1) x Width(L) x Depth(t)
LX 1232P6	111 x 220 x 60 mm
LX 1264P6	111 x 420 x 60 mm
LX 1296P6	111 x 610 x 60 mm
LX 12128P6	111 x 800 x 60 mm
LX 12160P6	111 x 1000 x 60 mm



*1 Mounting groove 10.5 x 4.5 mm (M6)

1-2 LINE TEXT DISPLAYS – Indoor

Pixel Pitch 6 mm

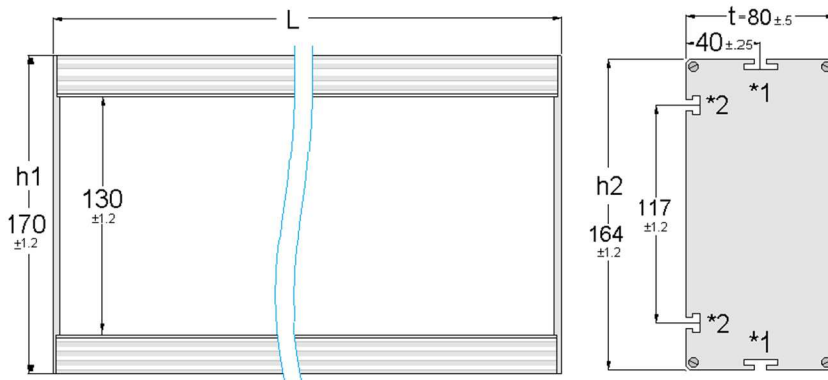


	LX 1632P6	LX 1664P6	LX 1696P6	LX 16128P6	LX 16160P6
LED colour	RGB	RGB	RGB	RGB	RGB
LED pixel pitch	6 mm	6 mm	6 mm	6 mm	6 mm
LED matrix	16 x 32 LEDs	16 x 64 LEDs	16 x 96 LEDs	16 x 128 LEDs	16 x 160 LEDs
Display height x width (mm)	95 x 192	95 x 384	95 x 576	95 x 768	95 x 960
Characters 4,2 cm, rd <20m	2 lines x 5 characters	2 lines x 10 characters	2 lines x 16 characters	2 lines x 21 characters	2 lines x 26 characters
Characters 5,4 cm, rd <25m	1 line x 5 characters	1 line x 10 characters	1 line x 16 characters	1 line x 21 characters	1 line x 26 characters
Characters 8 cm, rd <40m	1 line x 4 characters	1 line x 8 characters	1 line x 12 characters	1 line x 16 characters	1 line x 20 characters
Front	Acrylic glass reflex-free	Acrylic glass reflex-free	Acrylic glass reflex-free	Acrylic glass reflex-free	Acrylic glass reflex-free
Housing	Aluminum anodised	Aluminum anodised	Aluminum anodised	Aluminum anodised	Aluminum anodised
Housing H x L x T (mm)	170 x 220 x 80	170 x 420 x 80	170 x 610 x 80	170 x 800 x 80	170 x 1000 x 80
Weight (approx.)	1,4 kg	2,6 kg	3,8 kg	5,0 kg	6,3 kg
Power supply 230 VAC (H), alternative: 24 VDC (G)	110-230 VAC 18-36 VDC	110-230 VAC 18-36 VDC	110-230 VAC 18-36 VDC	110-230 VAC 18-36 VDC	110-230 VAC 18-36 VDC
Interface (already integrated)	RS232/RS485	RS232/RS485	RS232/RS485	RS232/RS485	RS232/RS485
Protection IP54	IP54	IP54	IP54	IP54	IP54
Ø / Max. Consumption	3 W / 7 W	5 W / 13 W	8 W / 19 W	10 W / 25 W	13 W / 32 W

(rd = reading distance)

Dimensions

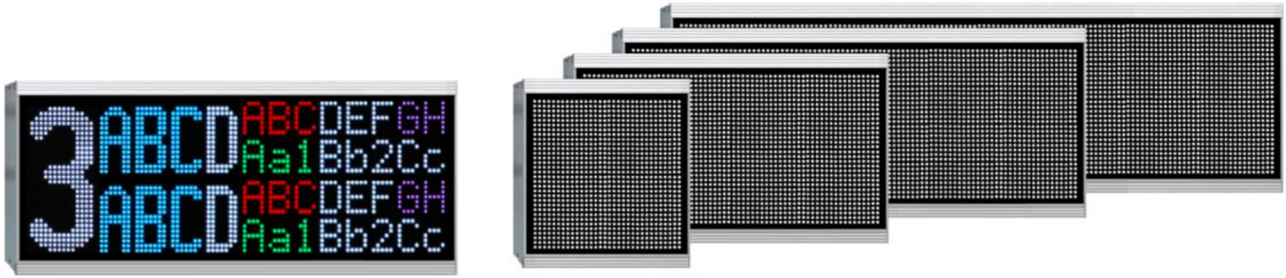
	Height(h1) x Width(L) x Depth(t)
LX 1632P6	170 x 220 x 80 mm
LX 1664P6	170 x 420 x 80 mm
LX 1696P6	170 x 610 x 80 mm
LX 16128P6	170 x 800 x 80 mm
LX 16160P6	170 x 1000 x 80 mm



*1 Mounting groove 9 x 3.5 mm, *2 Mounting groove 10.5 x 4.5 mm (M6)

1-4 LINE TEXT DISPLAYS – Indoor/Outdoor

Pixel Pitch 6 mm

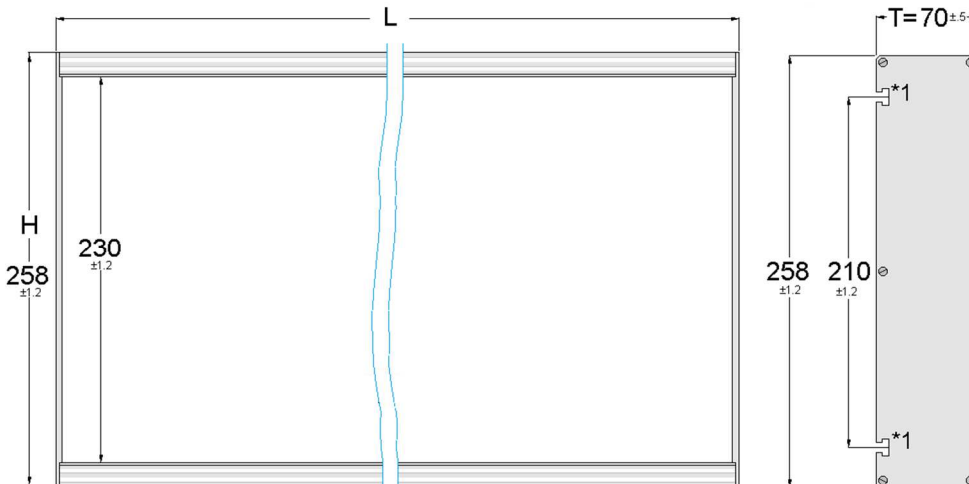


	LX 3232P6	LX 3264P6	LX 3296P6	LX 32128P6	LX 32160P6
LED colour	RGB	RGB	RGB	RGB	RGB
LED pixel pitch	6 mm	6 mm	6 mm	6 mm	6 mm
LED matrix	32 x 32 LEDs	32 x 64 LEDs	32 x 96 LEDs	32 x 128 LEDs	32 x 160 LEDs
Display height x width (mm)	190 x 192	190 x 384	190 x 576	190 x 768	190 x 960
Characters 4,2 cm, rd <20m	4 lines x 5 characters	4 lines x 10 characters	4 lines x 16 characters	4 lines x 21 characters	4 lines x 26 characters
Characters 5,4 cm, rd <25m	2 lines x 5 characters	2 lines x 10 characters	2 lines x 16 characters	2 lines x 21 characters	2 lines x 26 characters
Characters 8 cm, rd <40m	2 lines x 4 characters	2 lines x 8 characters	2 lines x 12 characters	2 lines x 16 characters	2 lines x 20 characters
Characters 12 cm, rd <60m	1 line x 4 characters	1 line x 8 characters	1 line x 12 characters	1 line x 16 characters	1 line x 20 characters
Characters 18 cm, rd <90m	1 line x 2 characters	1 line x 4 characters	1 line x 6 characters	1 line x 8 characters	1 line x 10 characters
Housing	Aluminum anodised	Aluminum anodised	Aluminum anodised	Aluminum anodised	Aluminum anodised
Front	Acrylic glass reflex-free	Acrylic glass reflex-free	Acrylic glass reflex-free	Acrylic glass reflex-free	Acrylic glass reflex-free
Housing H x L x T(mm)	258 x 220 x 70	258 x 420 x 70	258 x 610 x 70	258 x 800 x 70	258 x 1.000 x 70
Weight (approx.)	1,8 kg	3,4 kg	5,1 kg	6,7 kg	8,3 kg
Power supply 230 VAC (H), alternative: 24 VDC (G)	110-230 VAC 18-36 VDC	110-230 VAC 18-36 VDC	110-230 VAC 18-36 VDC	110-230 VAC 18-36 VDC	110-230 VAC 18-36 VDC
Interface (already integrated)	RS232/RS485	RS232/RS485	RS232/RS485	RS232/RS485	RS232/RS485
INDOOR Display	IP54	IP54	IP54	IP54	IP54
Ø / Max. Consumption	3 W / 8 W	6 W / 15 W	9 W / 22 W	13 W / 30 W	16 W / 38 W
OUTDOOR Display	IP65	IP65	IP65	IP65	IP65
Ø / Max. Consumption	8 W / 19 W	22 W / 42 W	25 W / 56 W	33 W / 75 W	40 W / 93 W

(rd = reading distance)

Dimensions

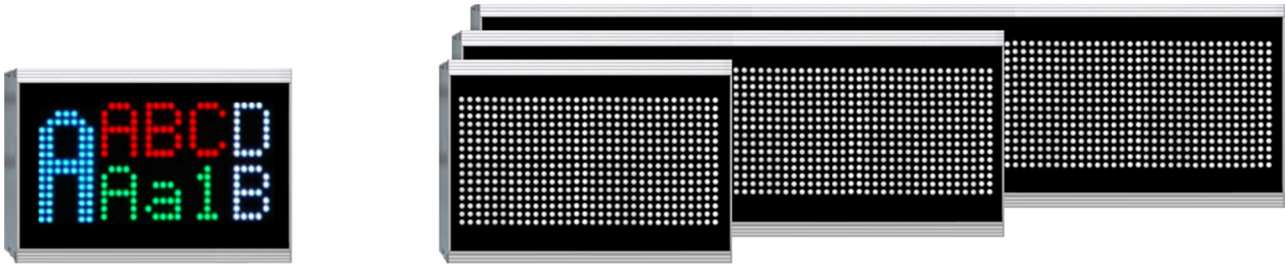
	Height(H) x Width(L) x Depth(T)
LX 3232P6	258 x 220 x 70 mm
LX 3264P6	258 x 420 x 70 mm
LX 3296P6	258 x 610 x 70 mm
LX 32128P6	258 x 800 x 70 mm
LX 32160P6	258 x 1.000 x 70 mm



*1 Mounting groove 19 x 3.5 mm

1-2 LINE TEXT DISPLAYS – Indoor/Outdoor

Pixel Pitch 10 mm

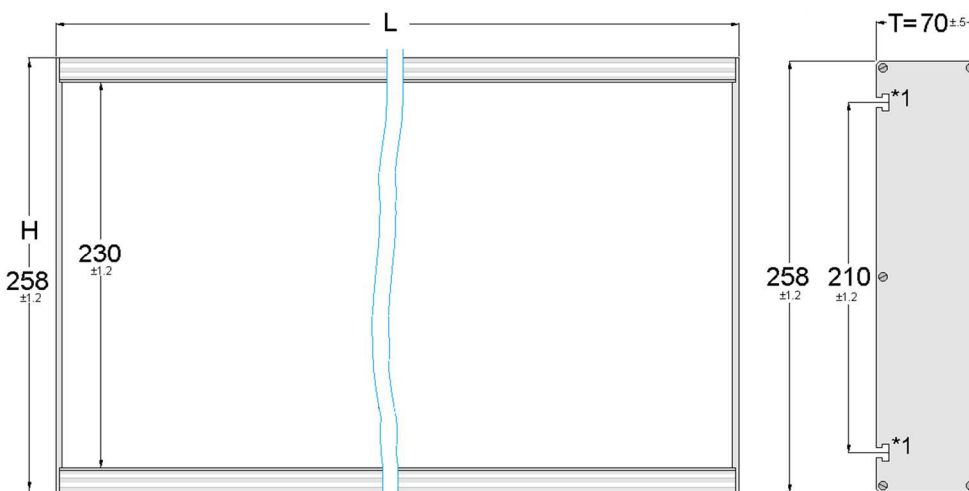


	LX 1632P10	LX 1664P10	LX 1696P10	LX 16128P10	LX 16160P10
LED colour	RGB	RGB	RGB	RGB	RGB
LED pixel pitch	10 mm	10 mm	10 mm	10 mm	10 mm
LED matrix	16 x 32 LEDs	16 x 64 LEDs	16 x 96 LEDs	16 x 128 LEDs	16 x 160 LEDs
Display height x width (mm)	160 x 320	160 x 640	160 x 960	160 x 1.280	160 x 1.600
Characters 7 cm, rd<35 m	2 lines x 5 characters	2 lines x 10 characters	2 lines x 16 characters	2 lines x 21 characters	2 lines x 26 characters
Characters 9 cm, rd <45 m	1 line x 5 characters	1 line x 10 characters	1 line x 16 characters	1 line x 21 characters	1 line x 26 characters
Characters 14 cm, rd <70 m	1 line x 4 characters	1 line x 8 characters	1 line x 12 characters	1 line x 16 characters	1 line x 20 characters
Housing	Aluminum anodised	Aluminum anodised	Aluminum anodised	Aluminum anodised	Aluminum anodised
Front	Acrylglas reflex-free	Acrylglas reflex-free	Acrylglas reflex-free	Acrylglas reflex-free	Acrylglas reflex-free
Housing H x L x T(mm)	258 x 360 x 70	258 x 680 x 70	258 x 1.000 x 70	258 x 1.320 x 70	258 x 1.640 x 70
Weight (approx.)	3 kg	5,7 kg	8,3 kg	11 kg	13,6 kg
Power supply 230 VAC (H), alternative: 24 VDC (G)	110-230 VAC 18-36 VDC	110-230 VAC 18-36 VDC	110-230 VAC 18-36 VDC	110-230 VAC 18-36 VDC	110-230 VAC 18-36 VDC
Interface (already integrated)	RS232/RS485	RS232/RS485	RS232/RS485	RS232/RS485	RS232/RS485
INDOOR Display	IP54	IP54	IP54	IP54	IP54
∅ Consumption / Max. Consumption	8 W / 18 W	15 W / 35 W	23 W / 53 W	30 W / 70 W	38 W / 88 W
OUTDOOR Display	IP65	IP65	IP65	IP65	IP65
∅ Consumption / Max. Consumption	11 W / 25 W	21 W / 50 W	32 W / 75 W	43 W / 100 W	53 W / 125 W

(rd = reading distance)

Dimensions

	Height(H) x Width(L) x Depth(T)
LX 1632P10	258 x 360 x 70 mm
LX 1664P10	258 x 680 x 70 mm
LX 1696P10	258 x 1.000 x 70 mm
LX 16128P10	258 x 1.320 x 70 mm
LX 16160P10	258 x 1.640 x 70 mm



*1 Mounting groove 19 x 3.5 mm

Mounting Aids

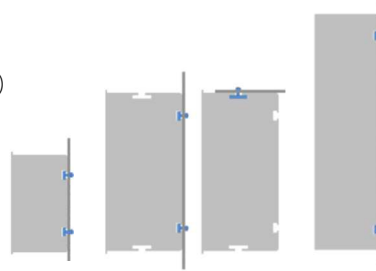
Befestigungssatz (im Lieferumfang enthalten) Mounting kit

suitable for LED Display

LX 12...P6

Order no.

BS L60



Connector position: bottom

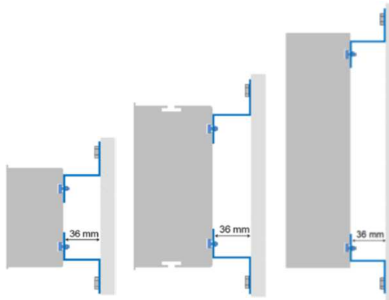
Wall mounting kit (L<400)

suitable for LED Display

LX 12...P6, LX 16...P6,
LX 32...P6, LX 16...P10

Order no.

WM-L1
WM-L1



Connector position: bottom

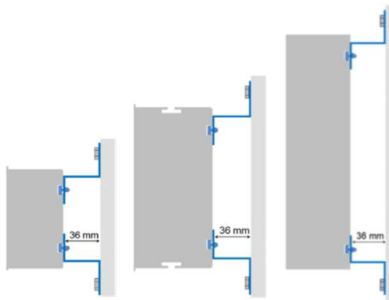
Wall mounting kit (L>400)

suitable for LED Display

LX 12...P6, LX 16...P6,
LX 32...P6, LX 16...P10

Order no.

WM-L2
WM-L2



Connector position: bottom

Suspension eyelets

suitable for LED Display

LX 12...P6
LX 16...P6
LX 32...P6, LX 16...P10

Order no.

AOE L60
AOE L100
AOE L200



Connector position: top

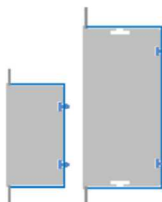
Installation kit

suitable for LED Display

LX 12...P6
LX 16...P6

Order no.

EM L60
EM L100



Connector position: rear

Project specific connector positions on request without any further costs. For example: right, top, bottom, rear.

LX Protocol - LED Fonts

We have developed 13 special LED fonts for optimal readability of LED matrix displays. The number of fonts is growing continuously. A corresponding large font is also available for each font. Fonts are divided into proportional and non-proportional fonts. Unlike proportional fonts, all characters in a non-proportional font are the same width.

Non proportional fonts	Font	Character height	Character width Normal font	Character width Broad font	Line height
Aa Aa	f3	7 LEDs	6 LEDs	7 LEDs	8 LEDs
Aa Aa	f10	10 LEDs	6 LEDs	7 LEDs	16 LEDs
Aa Aa	f1	14 LEDs	8 LEDs	9 LEDs	16 LEDs
Aa Aa	f2	14 LEDs	12 LEDs	13 LEDs	16 LEDs
Aa Aa	f7	21 LEDs	8 LEDs	12 LEDs	24 LEDs
Aa Aa	f12	24 LEDs	12 LEDs	13 LEDs	32 LEDs
Aa Aa	f8	30 LEDs	16 LEDs	17 LEDs	32 LEDs
Aa	f11	52 LEDs	32 LEDs	33 LEDs	64 LEDs

Proportional fonts	Font	Character height	Character width Normal font	Character width Broad font	Line height
Bb Bb	f0	9 LEDs	8 LEDs	9 LEDs	16 LEDs
Bb Bb	f4	10 LEDs	9 LEDs	10 LEDs	16 LEDs
Bb Bb	f5	12 LEDs	12 LEDs	13 LEDs	16 LEDs
Bb Bb	f6	15 LEDs	13 LEDs	14 LEDs	32 LEDs
Bb Bb	f9	20 LEDs	16 LEDs	17 LEDs	32 LEDs

(The information is a guideline because the character height and character width can be different for proportional fonts.)

Displayable characters Normal font			Width LED matrix (LEDs)							
			32	64	96	128	160	192	224	256
Font	Line height	Character	Displayable characters							
f3	8 LEDs	7 x 6 LEDs	5	10	16	21	26	32	38	42
f10	16 LEDs	10 x 6 LEDs	5	10	16	21	26	32	38	42
f1	16 LEDs	14 x 8 LEDs	4	8	12	16	20	24	28	32
f2	16 LEDs	14 x 12 LEDs	2	5	8	10	13	16	18	21
f7	24 LEDs	21 x 8 LEDs	4	8	12	16	20	24	28	32
f12	32 LEDs	24 x 12 LEDs	2	5	8	10	13	16	18	21
f8	32 LEDs	30 x 16 LEDs	2	4	6	8	10	12	14	16
f11	64 LEDs	52 x 32 LEDs	1	2	3	4	5	6	7	8

Character height - Maximum reading distance		Pixel pitch P6: 6 mm		Pixel pitch P10: 10 mm	
Font	Character	Character height	readable until	Character height	readable until
f3	7 x 6 LEDs	42 mm	17-21 m	70 mm	28-35 m
f10	10 x 6 LEDs	60 mm	24-30 m	100 mm	40-50 m
f1	14 x 8 LEDs	84 mm	33-42 m	140 mm	56-70 m
f2	14 x 12 LEDs	84 mm	33-42 m	140 mm	56-70 m
f7	21 x 8 LEDs	126 mm	50-63 m	210 mm	84-100 m
f12	24 x 12 LEDs	144 mm	57-72 m	240 mm	96-120 m
f8	30 x 16 LEDs	180 mm	72-90 m	300 mm	120-150 m
f11	52 x 32 LEDs	310 mm	125-150 m	520 mm	200-260 m

Rule of thumb for calculating the maximum reading distance: Character height x (400 - 500) = maximum reading distance

The calculated values are given in the above table. The information on the maximum reading distance has been rounded on the previous pages.

Interfaces

All of our displays can be equipped with the following interfaces:

RS 232	integrated
RS 485	integrated
Ethernet TCP/IP (.E)	✓
CAN-Bus (.C)	✓
ROFIBUS (.P)	✓
PROFINET (.PN)	✓
EtherNet/IP (.EI),	✓
Modbus (.MB)	✓
Modbus TCP (.MBT)	✓
Bluetooth	✓
DVI (.DVI)	✓
Radio Link (.RL)	✓
USB (.USB)	✓
WLAN (.WL)	✓

Further Functions / Controls

Analogue input 0..10 V, 0(4)...20 mA	✓
Timer	✓
Frequency counter	✓
Impulse counter	✓
DCF-Receiver	✓
Temperature sensor	✓
Humidity sensor	✓

Special Equipment / Options

LED display

- Versions that can be read on both sides
- Project-specific connector positions
- Project-specific connector types
- Power supply: 18-36 VDC

Housing

- Stainless steel housing
- Housing in the color of your choice
- Safety glass front screen
- Polycarbonate glass front screen

Mounting

- Suspension eyelets
- Press nuts
- Pole mounting kit
- Project-specific mounting aids

For outdoor use

- Weather protection hood

Scope Of Delivery

- LED display
- Wall mounting kit
- Data sheet
- LX protocol description

Your team at Visual Electronic GmbH



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