

LED Information Display

GSI

The GSI series of information displays are digital LED information displays specifically designed for public transport stops and terminals. The full matrix LED displays provide a flexible solution for passenger information systems providing up-to-date information to passengers. Designed without front cover glass for maximum colour reproduction. Various mounting options.



Features

LED Technology

LED full-matrix technology allows freely configurable display layout. Full graphical display with fine pixel pitch 1.95 or 2.5 mm perfectly displays text, graphic symbols, images, videos, websites and live broadcasts.

- High brightness display guarantees excellent readability even in direct sunlight.
- Fully graphic display shows public transport information, train and bus departures, general passenger information as well as advertising messages and other multimedia.

Information System

Possibility of making the display as an autonomous display element or as part of larger information system.

- Management by an external master computer makes tracking and controlling easier.
- Power and runtime data are automatically monitored.

Mechanical Design

- Stable construction made of laser-cut and bent aluminium sheets and profiles, frame color on customer's request.
- Without front glass for excellent contrast and color reproduction, complete reduction of reflections, better cooling and lower weight.
- Flexible dimensions.
- Ceiling, wall bracket or wall surface mounting. Customized solution on request.
- Single sided or double sided design.
- Possibility to implement extra digital clock, analogue clock, platform number or fixed description.
- Passive cooling without fans.
- Easy access to all internal modules after tilting front panel makes easier to check up and replace internal parts.

Operation

- The display is designed for reliable usage 24/7 in indoor conditions.
- Choose from two types of modes according displays usage.

Text-to-Speech Module

Specially developed module for visually handicapped person.

- The module provides the necessary information via synthetic voice output from 8W speakers.

Various Areas of Use



Public Transport
and Bus Stops



Train Stops
and Stations



Railway
Stations



LED
Technology



Full Color
RGB Display



Usage 24/7



Brightness up
to 1500 cd/m²



Management
and Monitoring System



Integrated
Temperature Control



Option Wi-Fi,
LTE or Fiber
Optics



Text-To-Speech
Module



Suitable
for Indoor Use

Technical Parameters

GSI.		19	25
Module Specifications	pixel pitch [mm]	1.95 ¹	2.5
	resolution [px]	128 x 128	100 x 100
	size [mm]	250 x 250	
	brightness	800 cd/m²	1500 cd/m²
	viewing angle	±70° x ±60°	
	frame frequency	50 Hz	
	refresh rate	3 840 Hz	
	color depth	24 bit	
	contrast	3 000:1	
	life span	≥ 100 000 hours (70% brightness)	
Mechanical Construction	frame	laser-cut and bent aluminium sheets	
	service access	tilting front panel secured by industrial locks	
	cooling	passive, without fans	
	dimensions [mm]	by screen size, see Indicative dimensions table	
	protection degree	IP 40 (IP 41 on request)	
	max. size of active display area [m] W x H	2.75 x 1.25 ²	
Temperature Management	temperature	-10 to +40 °C	
	humidity	10 to 90 % (without condensing)	
Power	power voltage	100–240 VAC, 50–60 Hz	
	power consumption	15 W/ module MAX, 5 W/ module AVG	13 W/ module MAX, 6 W/ module AVG
Mounting	standard	ceiling suspension, wall bracket, wall surface mounting	
	on request	customized solution	

Notes

- 1 Available only for projects with total area over 5 m².
- 2 Possibility to make information display without cover glass made of cabinets, where there is no size limit. Dimensions must be in multiples of 0.5 x 0.5 m.

Basic Font Set

GSI.19

Name	Standard 5/7	Bold 6/7	Narrow 4/7	Small 4/6	Standard 6/10	Narrow 6/12	Arial 9/11	Arial 11/13	Arial 17/19	Arial 31/34
Max. character size (including gaps) [px] A x B	6 x 10	7 x 10	5 x 10	5 x 7	7 x 14	7 x 18	10 x 18	12 x 21	18 x 30	31 x 53
Height of capital letter [mm] C	13	13	13	11,5	19	23	21	25	36	64
Readability DIN1450 [m]	5,4	5,4	5,4	4,6	7,6	9,2	8	10	14,5	26
Readability TSI-PRM [m]	3,4	3,4	3,4	3	5	5,7	5	6	9	16
Number of characters per line (1 module)	21,3	18,3	25,6	25,6	18,3	18,3	12,8	10,7	7,1	4,0
Max. number of rows per module	12,8	12,8	12,8	18,3	9,1	7,1	7,1	6,1	4,3	2,4

Possibility to add font on customer's request

GSI.25

Name	Standard 5/7	Bold 6/7	Narrow 4/7	Standard 6/10	Narrow 6/12	Arial 9/11	Arial 11/13	Arial 15/17	Arial 17/19	Arial 25/27
Max. character size (including gaps) [px] A x B	6 x 10	7 x 10	5 x 10	7 x 14	7 x 10	8 x 14	12 x 18	16 x 27	18 x 30	26 x 42
Height of capital letter [mm] C	18,8	18,8	18,8	26,3	31,3	28,8	33,8	43,8	48,8	68,8
Readability DIN1450 [m]	8	8	8	12	13	12	14	18	20	28
Readability TSI-PRM [m]	5	5	5	7	8	7	8	11	12	17
Number of characters per line (1 module)	16,7	14,3	20,0	14,3	14,3	12,5	8,3	6,3	5,6	3,8
Max. number of rows per module	10,0	10,0	10,0	7,1	10,0	7,1	5,6	3,7	3,3	2,4

Possibility to add font on customer's request



Order Reference

1

Model

GSI.19	19
GSI.25	25

2

Number of Pixels Horizontally

GSI.19 (128 px per module)	256–1408
GSI.25 (100 px per module)	200–1100

3

Number of Pixels Vertically

GSI.19 (128 px per module)	128–640
GSI.25 (100 px per module)	100–500

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Display Color

Full color RGB display	RGB
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5

Design

Single sided	N
Double sided	D

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Mounting

Ceiling suspension	S
Ceiling suspension with additional fastening on side of the display	SB
Ceiling suspension with additional fastening on left side of the display	SL
Ceiling suspension with additional fastening on right side of the display	SR
Wall surface mounting	N
Wall bracket	B
Wall bracket with additional fastening on left side of the display	BL
Wall bracket with additional fastening on right side of the display	BR
Customized solution on request	Z

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Cover Glass

Without front glass	O
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Options

(if more than one options is selected, include the extension code in order indicated separated by dot)

Fixed header (number indicates specific design)	Px
Digital clock	CLK
Analogue clock	ACLK
Analogue clock with seconds hand	ACLKS
Platform number	Nb
Text-to-Speech module with 8W speaker and receiver for visually handicapped	TTS
Interface Ethernet	LAN
Interface RS 485	RS485
Interface WiFi	WiFi
Interface LTE	LTE
Interface fiber optics	FO
Remote device restart trigger option	RR
Power outage notification	PFN
Auxiliary security lock	ASL

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Frame Color

Matte black	RAL9005
Light grey	RAL7040
Blue	RAL5003
Frame color on request	RALxxxx

Order example:

GSI.25.1000.400.RGB.N.N.O.CLK.TTS.RS485.RAL5003

	1	2	3	4	5	6	7	8	9
GSI	.	.	.	.	.	.	.	.	.
	Model	Number of Pixels Horizontally	Number of Pixels Horizontally	Display Color	Design	Mounting	Cover Glass	Options	Frame Color

Accessories

Holders:

1 Holder
Wall holder WH.F

2 Model
GSI.19 GSI.19
GSI.25 GSI.25

3 Number of Pixels Horizontally
GSI.19 (128 px per module) 256–1408
GSI.25 (100 px per module) 200–1100

4 Number of Pixels Vertically
GSI.19 (128 px per module) 128–640
GSI.25 (100 px per module) 100–500

5 Options
Fixed header (number indicates specific design) Px
Digital clock CLK
Analogue clock ACLK
Analogue clock with seconds hand ACLKS
Platform number Nb

6 Frame Color
Matte black RAL9005
Light grey RAL7040
Blue RAL5003
Frame color on request RALxxx

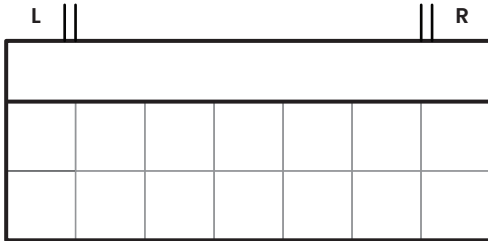
Order example
for display GSI.25.1000.400.RGB.N.N.O.CLK.TTS.RS485.RAL5003:

WH.F.GSI.25.1000.400.CLK.RAL5003

1	2	3	4	5	6
Holder	Model	Number of Pixels Horizontally	Number of Pixels Vertically	Options	Frame Color

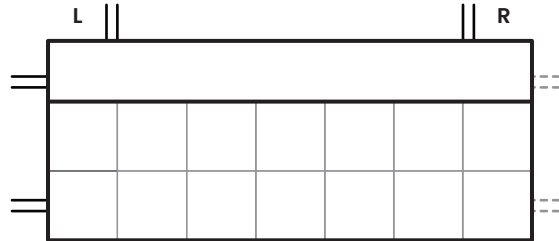
Mounting

Ceiling Suspension



Order reference: **S**

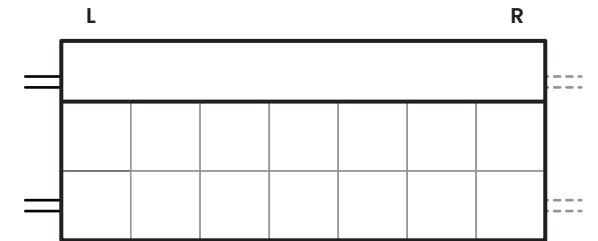
Ceiling Suspension
with Additional Fastening on Side of the Panel



Order reference for Single Sided: **SL / SR**

Order reference for Double Sided: **SB**

Wall Bracket
(with Additional Fastening on Side of the Panel)



Order reference for Single Sided: **BL / BR**

Order reference for Double Sided: **B**

Get in Touch

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LE-801328.10-GSI Indoor LED Full Matrix Information Display-260723

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