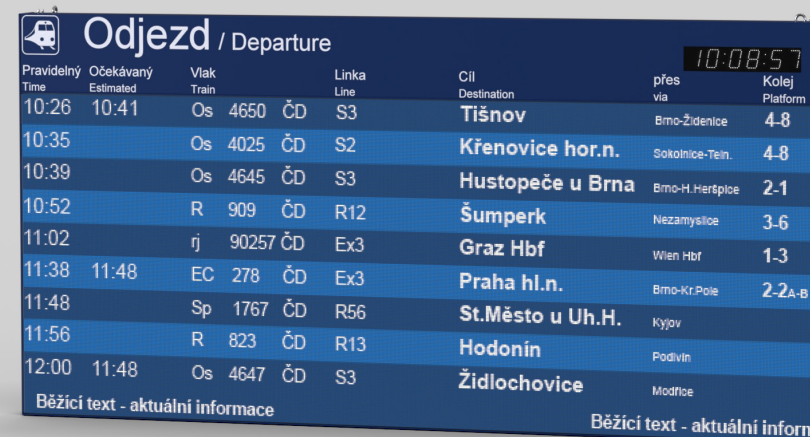


# LED Information Displays

## GXO

GXO series information displays are digital LED information displays specially designed to create a large display area in the transport hub and train transport. 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 optimal contrast and color reproduction. Various mounting options.



| Odjezd / Departure |                        |               |               |                         |                  |                   |  |
|--------------------|------------------------|---------------|---------------|-------------------------|------------------|-------------------|--|
| Pravidelný<br>Time | Očekávaný<br>Estimated | Vlak<br>Train | Linka<br>Line | Cíl<br>Destination      | přes<br>via      | Kolej<br>Platform |  |
| 10:26              | 10:41                  | Os 4650 ČD    | S3            | <b>Tišnov</b>           | Brno-Židenice    | 4-8               |  |
| 10:35              |                        | Os 4025 ČD    | S2            | <b>Křenovice hor.n.</b> | Sokolnice-Tein.  | 4-8               |  |
| 10:39              |                        | Os 4645 ČD    | S3            | <b>Hustopeče u Brna</b> | Brno-H. Heršpice | 2-1               |  |
| 10:52              |                        | R 909 ČD      | R12           | <b>Šumperk</b>          | Nezamyslice      | 3-6               |  |
| 11:02              |                        | rj 90257 ČD   | Ex3           | <b>Graz Hbf</b>         | Wien Hbf         | 1-3               |  |
| 11:38              | 11:48                  | EC 278 ČD     | Ex3           | <b>Praha hl.n.</b>      | Brno-Kr.Pole     | 2-2A-B            |  |
| 11:48              |                        | Sp 1767 ČD    | R56           | <b>St.Město u Uh.H.</b> | Kyjov            |                   |  |
| 11:56              |                        | R 823 ČD      | R13           | <b>Hodonín</b>          | Podivín          |                   |  |
| 12:00              | 11:48                  | Os 4647 ČD    | S3            | <b>Židlochovice</b>     | Modřice          |                   |  |

Běžící text - aktuální informace

# Features

## LED Technology

LED full-matrix technology allows freely configurable display layout. Full graphical display with fine pixel pitch 2.6 mm perfectly displays text, graphic symbols, images, videos, websites and live broadcasts.

- High brightness display guarantees excellent readability even in direct sunlight.
- Display of 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 aluminium profiles and laser-cut sheets.
- Without front glass for excellent contrast and color reproduction, complete reduction of reflections, better cooling of modules and lower weight.
- Flexible dimensions in multiples of 0.5 × 0.75 and 0.5 × 1.0 m.
- Ceiling, wall bracket or wall surface mounting. Customized solution on request.
- Single sided or double sided design.
- Possibility to implement extra digital clock.
- Passive cooling without fans.
- Easy access to all internal modules after dismantling the LED modules.

## Operation

- The display is designed for reliable usage 24/7 in indoor and outdoor 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 15W speakers.

## Various Areas of Use



Train Stops



Train Stations



Metro

| Odjezd / Departure               |                        |               |               |                               |                   |                   |  |
|----------------------------------|------------------------|---------------|---------------|-------------------------------|-------------------|-------------------|--|
| Pravidelný<br>Time               | Očekávaný<br>Estimated | Vlak<br>Train | Linka<br>Line | Cíl<br>Destination            | přes<br>via       | Kolej<br>Platform |  |
| 10:26                            | 10:41                  | Os 4650 ČD    | S3            | Tišnov                        | Brno-Židenice     | 4-8               |  |
| 10:35                            |                        | Os 4025 ČD    | S2            | Křenovice hor.n.              | Sokolnice-Teln.   | 4-8               |  |
| 10:39                            |                        | Os 4645 ČD    | S3            | Hustopeče u Brna              | Brno-H. Hieršpice | 2-1               |  |
| 10:52                            |                        | R 909 ČD      | R12           | Šumperk                       | Nezamyslice       | 3-6               |  |
| 11:02                            |                        | rj 90257 ČD   | Ex3           | Graz Hbf                      | Wien Hbf          | 1-3               |  |
| 11:38                            | 11:48                  | EC 278 ČD     | Ex3           | Praha hl.n.                   | Brno-Kr.Pole      | 2-2A-B            |  |
| 11:48                            |                        | Sp 1767 ČD    | R56           | St.Město u Uh.H.              | Kyjov             |                   |  |
| 11:56                            |                        | R 823 ČD      | R13           | Hodonín                       | Podivín           |                   |  |
| 12:00                            | 11:48                  | Os 4647 ČD    | S3            | Židlochovice                  | Modřice           |                   |  |
| Běžící text - aktuální informace |                        |               |               | Běžící text - aktuální inform |                   |                   |  |



SMD LED  
Technology



Full Color RGB  
Display



Usage 24/7



Brightness up  
to 5 000 cd/m<sup>2</sup>



Management and  
Monitoring System



Maintenance-free  
Passive Cooling



Option WiFi, LTE  
or Fiber Optics



Text-To-Speech  
Module



Suitable for  
Outdoor Use

## Technical Parameters

| GXO.                    |                                               | 26                                                                               |
|-------------------------|-----------------------------------------------|----------------------------------------------------------------------------------|
| Module Specifications   | pixel pitch [mm]                              | 2.6                                                                              |
|                         | resolution [px]                               | 96 × 96                                                                          |
|                         | size [mm]                                     | 250 × 250                                                                        |
|                         | brightness                                    | 5 000 cd/m <sup>2</sup>                                                          |
|                         | viewing angle                                 | ±70° × ±60°                                                                      |
|                         | frame frequency                               | 50 Hz                                                                            |
|                         | refresh rate                                  | 7 680 Hz                                                                         |
|                         | color depth                                   | 24 bit                                                                           |
|                         | contrast                                      | 12 000:1                                                                         |
|                         | life span                                     | ≥ 100 000 hours (70% brightness)                                                 |
| Mechanical Construction | frame                                         | aluminium profiles and laser-cut sheets                                          |
|                         | service access                                | from front after dismantling the LED modules, LED modules held by magnets        |
|                         | cooling                                       | passive cooling                                                                  |
|                         | dimensions                                    | according to active display area                                                 |
|                         | protection degree                             | IP 54                                                                            |
|                         | max. size of active display area [m]<br>W × H | multiples of combinations of 0.5 × 0.75 m and 0.5 × 1.0 m; size limit 10 × 5.5 m |
| Temperature Management  | temperature                                   | -20 to +40 °C                                                                    |
|                         | humidity                                      | 10 to 90 % (without condensing)                                                  |
|                         | max. intensity of solar radiation             | 1 120 W/m <sup>2</sup>                                                           |
| Power                   | power voltage                                 | 100–240 VAC, 50–60 Hz                                                            |
|                         | max. power consumption                        | 45 W/ module MAX,<br>15 W/ module AVG                                            |
| Mounting                | standard                                      | ceiling suspension, wall bracket, wall surface mounting                          |
|                         | on request                                    | customized solution                                                              |

# Basic Font Set

| GXO.26                                             |              |          |            |               |             |            |             |             |             |             |
|----------------------------------------------------|--------------|----------|------------|---------------|-------------|------------|-------------|-------------|-------------|-------------|
| Font 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]<br>A × B | 6 × 10       | 7 × 10   | 5 × 10     | 7 × 14        | 7 × 10      | 8 × 14     | 12 × 18     | 16 × 27     | 18 × 30     | 26 × 42     |
| Height of capital letter [mm]<br>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.



## Indicative Dimensions Table

Dimensions are in mm.

| GXO.26                             |                          | No. of Modules Horizontally / Pixels |                |                |                |                |                |                |                |                           |
|------------------------------------|--------------------------|--------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------------------|
|                                    |                          | 12<br>1 152                          | 14<br>1 344    | 16<br>1 536    | 18<br>1 728    | 20<br>1 920    | 22<br>2 112    | 24<br>2 304    | 26<br>2 496    | x+2 <sup>1</sup><br>n+192 |
| No. of Modules Vertically / Pixels | 3<br>288                 | 3 000<br>750                         | 3 500<br>750   | 4 000<br>750   | 4 500<br>750   | 5 000<br>750   | 5 500<br>750   | 6 000<br>750   | 6 500<br>750   | x+500<br>750              |
|                                    | 4<br>384                 | 3 000<br>1 000                       | 3 500<br>1 000 | 4 000<br>1 000 | 4 500<br>1 000 | 5 000<br>1 000 | 5 500<br>1 000 | 6 000<br>1 000 | 6 500<br>1 000 | x+500<br>1 000            |
|                                    | 6<br>576                 | 3 000<br>1 500                       | 3 500<br>1 500 | 4 000<br>1 500 | 4 500<br>1 500 | 5 000<br>1 500 | 5 500<br>1 500 | 6 000<br>1 500 | 6 500<br>1 500 | x+500<br>1 500            |
|                                    | 7<br>672                 | 3 000<br>1 750                       | 3 500<br>1 750 | 4 000<br>1 750 | 4 500<br>1 750 | 5 000<br>1 750 | 5 500<br>1 750 | 6 000<br>1 750 | 6 500<br>1 750 | x+500<br>1 750            |
|                                    | 8<br>768                 | 3 000<br>2 000                       | 3 500<br>2 000 | 4 000<br>2 000 | 4 500<br>2 000 | 5 000<br>2 000 | 5 500<br>2 000 | 6 000<br>2 000 | 6 500<br>2 000 | x+500<br>2 000            |
|                                    | 9<br>864                 | 3 000<br>2 250                       | 3 500<br>2 250 | 4 000<br>2 250 | 4 500<br>2 250 | 5 000<br>2 250 | 5 500<br>2 250 | 6 000<br>2 250 | 6 500<br>2 250 | x+500<br>2 250            |
|                                    | 10<br>960                | 3 000<br>2 500                       | 3 500<br>2 500 | 4 000<br>2 500 | 4 500<br>2 500 | 5 000<br>2 500 | 5 500<br>2 500 | 6 000<br>2 500 | 6 500<br>2 500 | x+500<br>2 500            |
|                                    | y+1 <sup>2</sup><br>n+96 | 3 000<br>y+250                       | 3 500<br>y+250 | 4 000<br>y+250 | 4 500<br>y+250 | 5 000<br>y+250 | 5 500<br>y+250 | 6 000<br>y+250 | 6 500<br>y+250 | x+500<br>y+250            |

<sup>1</sup> Limit of 40 modules (3 840 px) horizontally.

<sup>2</sup> Limit of 22 modules (2 112 px) vertically.

## Order Reference

**1 Model**  
GXO.26 26

**2 Number of Pixels Horizontally**  
GXO.26 (96 px per module) 1152–3840

**3 Number of Pixels Vertically**  
GXO.26 (96 px per module) 288–2112

**4 Display Color**  
Full Color RGB Display RGB

**5 Design**  
Single sided N  
Double sided D

**6 Mounting**  
Ceiling suspensions S  
Wall surface mounting N  
Wall bracket B  
Wall bracket with additional fastening of left side BL  
Wall bracket with additional fastening of right side BR  
Customized solution on request Z

**7 Options <sup>1</sup>**  
(if more than one options is selected, include the extension code in order indicated separated by dot)

|                                                                              |       |
|------------------------------------------------------------------------------|-------|
| Fixed description (number indicates specific design)                         | Px    |
| Digital clock                                                                | CLK   |
| Text-To-Speech module with 15W speaker and receiver for visually handicapped | TTS   |
| Interface Ethernet                                                           | LAN   |
| Interface RS 485                                                             | RS485 |
| Interface WiFi                                                               | WiFi  |
| Interface LTE                                                                | LTE   |
| Interface LTE with short-term power backup                                   | LTEB  |
| Interface fiber optics                                                       | FO    |
| Preparation for interface fiber optics                                       | FOP   |
| Tamper switch                                                                | ST    |
| Remote device restart trigger option                                         | RR    |
| Power outage notification                                                    | PFN   |

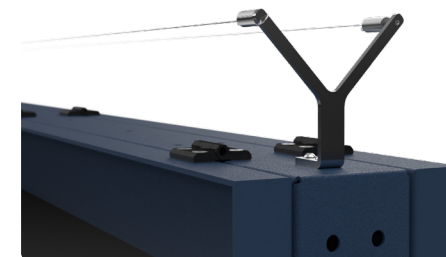
<sup>1</sup> Some options cannot be combined with each other due to technical reasons. Please contact manufacturer to verify the configuration.

**8 Frame Color**

|                        |         |
|------------------------|---------|
| Matte black            | RAL9005 |
| Anthracite             | RAL7016 |
| Blue                   | RAL5003 |
| Frame color on request | RALxxxx |

### Accessories

Protection against birds GXO.BP



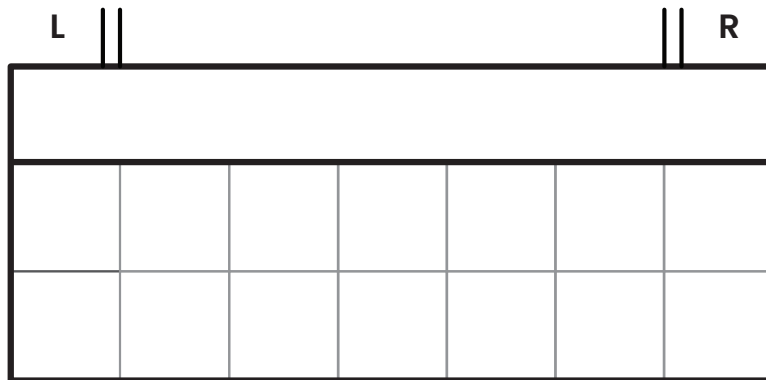
Order example:

**GXO.26.1728.672.RGB.N.N.CLK.TTS.LAN.RAL7016**

| GXO   | 1                             | 2                           | 3             | 4      | 5        | 6       | 7           | 8 |
|-------|-------------------------------|-----------------------------|---------------|--------|----------|---------|-------------|---|
|       |                               |                             |               |        |          |         |             |   |
| Model | Number of Pixels Horizontally | Number of Pixels Vertically | Display Color | Design | Mounting | Options | Frame Color |   |

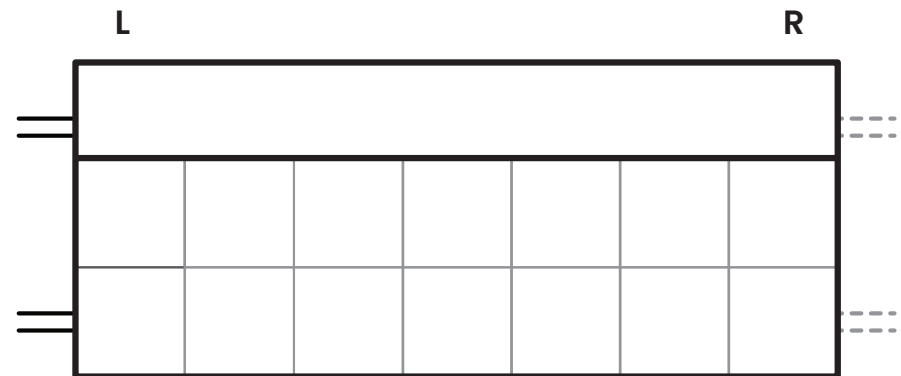
## Mounting

Ceiling Suspension



Order reference: **S**

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



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

Order reference for Double Sided: **B**

# Get in Touch

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LE-801391.02-GX0 Outdoor LED Full Matrix Information Display-260921

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