LaneLED WALL



Product information

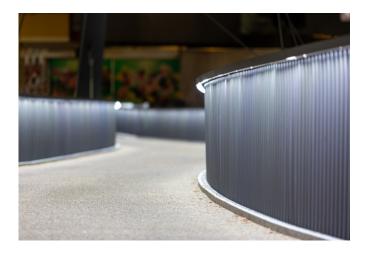






09|17





Lighting System LaneLED WALL – universally applicable surface mounted LED lighting for diverse applications

This new GIFAS product is based on our 20 years of know-how with LED guidance systems and our Lighting System GFK for railway tunnels. LaneLED WALL is a complete system that is easy to assemble. The range of applications is very diverse! Production is carried out to 100% in Rheineck, Switzerland.

The main feature of LaneLED WALL is its compact and small structure und the excellent luminous efficiency. Installation and assembly are carried out in tight spaces - wherever there is little space available. The smallest possible dimensions, and an inconspicuous installation as a result! LaneLED WALL is mounted on the wall or the ceiling. (Mounting dependent on the situation)

The installation can also be carried out in niches – in this case, the small dimensions will particularly help users.

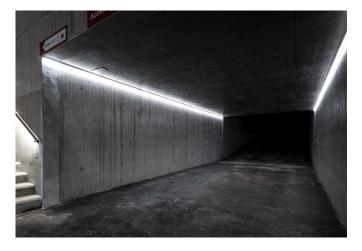
Applications

- emergency exit illumination in road, metro and railway tunnels
- train stations, waiting halls or shelters
- general illumination of railway stations, waiting halls or shelters
- emergency escape route lighting in metro and railway tunnel
- marking of emergency exits (green LaneLED)
- ceiling mounting for power station, cavern tunnels and escape and working tunnels with low headroom
- bridge illumination
- walkway illumination



Your advantages

- simple and fast assembly thanks to the practical clicking/connection system
- replacement of a LaneLED light bar in 2 minutes
- flame-retardent, halogen-free and self-extinguishing
- optional half-redundancy
- LED light colours white (standard 4'400 K) and green (528 nm)
- various lighting options thanks to different LED light bars
- optimised for maintenance because of plug-in/click-in-system
- individual and project-related consultation
- comprehensive support with light voltage drop calculations and planning documents
- high-quality, long-lasting materials
- safe system operation due to safety-low voltage
- vandal-proof execution possible (by use of appropriate components)
- variable lighting thanks to the optional dimming function
- failure monitoring when switched-off (optional cold conductor monitoring possible)
- long segments even possible for high light outputs (eg. 200 m with type 4 redundant)





System Components LaneLED WALL

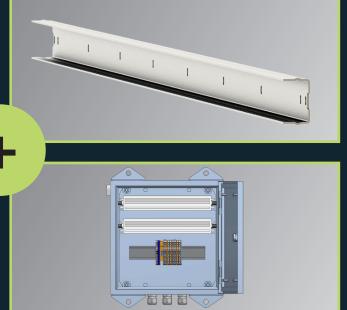
Lighting components

LaneLED light bar in special plastic profile incl. electrical supply

Mechanical components

- wall mounting, bracket and accessories V4Aconnector and angle parts





System components

- system cable
- current collector

Supply components

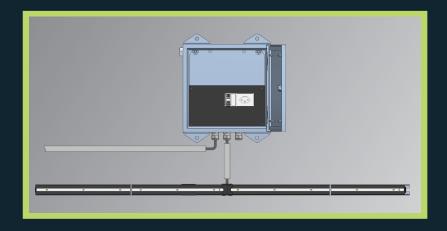
- supply unit
- mains unit
- cable and line



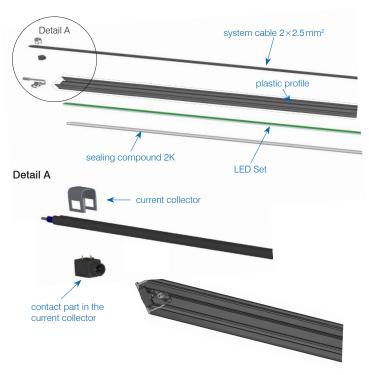
A product that has come from successful GIFAS development!

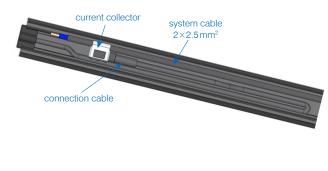
LaneLED WALL

Hand rail with integrated emergency escape route lighting











GIFAS-LaneLED WALL

The light bar «LaneLED» from GIFAS is the base element for the illuminated handrails LaneLED GFK and LaneLED WALL. The appropriate type is selected depending on the requirements of the operator, whereas the desired average luminance is the most important specification. The other parameters of the LaneLED are carefully defined.

- Light colour: 4'400 K

(3'000 K or 5'800 K on request)

Beam angle: 120°

- Operating life: L90/B10 100'000h +25°C

Protection category: IP66/69K
 Operating range of temperature: -25°C to +45°C

Composition of the light bar LaneLED

The carrier profile of the LaneLED WALL light bar consists of V4A 1.4404 profile with special characteristics for mechanical and chemical strains. A flexible and separable LED strip is inserted from below and incorporated into the profile with 2K casting compound. The encapsulation leads to the high protection class of IP66/69K.

There is room for the cable guide and the current collector in the upper part of the profile (in between the flanks).

Light bar LaneLED

The light bar LaneLED completely ready for connection (pluggable), not including assembly materials (system cable and current collector).

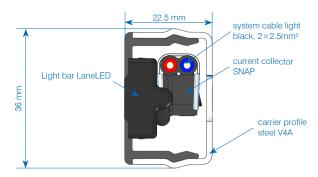
Illumination

Light cone with radiation 120°. Illumination depending on placement.



Current collector type SNAP

Each individual LaneLED is connected to the power supply via the current collector and is freely attachable to the flat cable $2\times2.5\,\text{mm}^2$ (crimping tool for current collector).



View: cut proflie with current collector

Accessories LaneLED

Item no.	Description
209768	LED, system cable black, 2×2.5mm ² flat cable CPR B2ca XLPO/XLPO, B2ca-s1-d0-a1
209769	LED, system cable blue, 2×2.5mm ² flat cable CPR B2ca XLPO/XLPO, B2ca-s1-d0-a1
209770	LED, system cable red, 2×2.5mm ² flat cable CPR B2ca XLPO/XLPO, B2ca-s1-d0-a1
136230	LED, current collector SCREW 2P, 42V-5A, V4A 1.4401, with metal bracket, thread base plate and set screw
860120	LED, current collector SNAP 2P, 42V-5A, V2A 1.4310 (requires special pliers Item no. 860565)

Light data / Assortiment LaneLED WALL white

Technical data LaneLED - Light comparison measurements

Perfect light for each application! An overview of the values that can be achieved with light bars LaneLED type 1 to 6 follows.

Standard assortment

Item no.	Length mm	Number of LED	Output W	Power mA	Luminous flux Im
Type 1: La	neLED WAL	L, 4'400 K, 2	21-32 VDC		
860391	372	12	0.12	5	8
860392	1110	36	0.36	15	24
Type 3: La	neLED WAL	L, 4'400K, 2	21-32 VDC		
860394	372	12	0.5	20	32
860395	1110	36	1.5	60	96
	neLED WAL				
860526	372	12	1	40	64
860527	1110	36	3	120	192
Type 5: La	neLED WAL	L, 4'400K, 2	21-32 VDC		
860397	372	12	1.5	60	96
860398	1110	36	4.5	180	288
Type 6: La	ıneLED WAL	.L, 4'400 K, 2	21-32 VDC		
860529	372	12	3	120	192

Typ 11: LaneLED WALL, 21-28 VDC

3'000 K	4'400 K	5'800 K	Number of LED	W-mA	Length mm	Luminous flux Im
860546	860538	860542	6	2W-80mA	188	120
860547	860539	860543	18	6W-240mA	558	360
860548	860540	860544	30	10 W-400 mA	926	600
860549	860541	860545	48	16W-640mA	1'479	960

Other versions on request

Redundancy

The LaneLED light bar has two independent lighting circuits, which are fed separately. This ensures that, if one lighting circuit fails (power supply failure, wire breakage, electronics defect, etc.) the LaneLED light bar retains 50% of its functionality.

Redundant assortment

Item no.	Length mm	Number of LED	Output W	Power mA	Luminous flux lm
Type 2: La	neLED WAL	L redundan	it, 4'400 K, 2	1-32VDC	
860400	374	12	2×0.12	2× 5	2× 8
860401	1112	36	2×0.36	2×15	2×24

Type 3: LaneLED WALL redundant, 4'400 K, 21-32 VDC 860403 374 12 2×0.25 2×10 2× 16 860404 1112 36 2×0.75 2×30 2× 48

Type 4: LaneLED WALL redundant, 4'400 K, 21-32 VDC						
860532	374	12	2×0.50	2× 20	2× 32	
860533	1112	36	2×1.50	2× 60	2× 96	

Type 5: LaneLED WALL redundant, 4'400 K, 21-32 VDC						
860406	374	12	2×0.75	2× 30	2× 48	
860407	1112	36	2×2.20	2× 90	2×144	

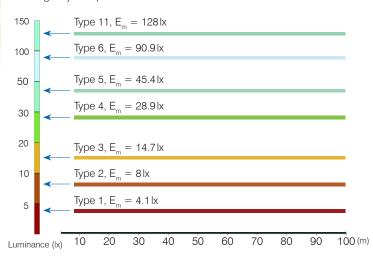
Type 6: LaneLED WALL redundant, 4'400 K, 21-32 VDC 860535 374 12 2× 1.5 2× 60 2×

860535	374	12	2× 1.5	2× 60	2× 96
860536	1112	36	2× 4.5	2×180	2×288

Other versions on request

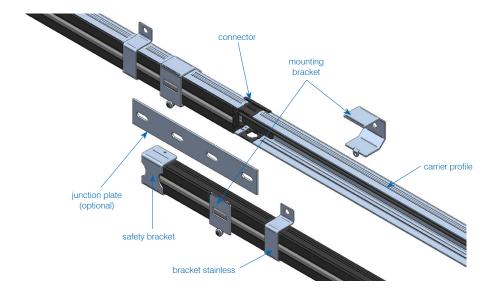
576

Maintenance factor: 1 (value as new) Light mounting height: 95 cm (wall mounted) Emergency escape route width: 1 m





Overview

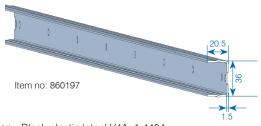


LaneLED WALL

The LaneLED WALL system is mounted on the wall/ceiling as one «whole unit». To keep the mounting simple and quick, a variety of standard articles are available.

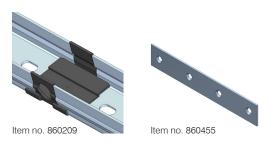
Carrier profile - Steel V4A, 1.4404, cold-rolled

The use of the carrier profile is obligatory for all mounting versions. The light strip is inserted by means of the click function. The carrier profile can be attached to the wall/ceiling directly (without further accessories).



Connector - Black plastic/steel V4A, 1.4404

The connector is used for clean guiding at the junction from carrier profile to carrier profile. It is inserted lengthwise into the carrier profile during the mounting process to cleanly hold the next profile.



Safety bracket - Black plastic/steel V4A, 1.4404

For every profile junction, the protective bracket is clicked-on from the front.





End cap - Black plastic / Steel V4A, 1.4404

The end cap serves as a clean «line ending». It is placed on the lighting profile at the beginning and the end of a section. Available in two versions: Plastic or steel.



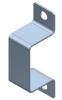


Item no. 860208

Item no. 860642

Mounting brackets - Steel V4A, 1.4404

With the different mounting brackets the profile system can be used for a variety of applications in addition to the usual direct wall mounting. The installation can be realised vandal-proof if required.





Item no. 860323

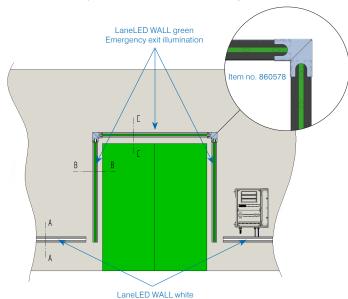
Item no. 860595

Item no.	Description
860197	LaneLED WALL, carrier profile 36×20 mm, L=2'950 mm steel V4A, 1.4404
860209	LaneLED WALL, connector black with cable entry piece plastic, UL94-V0, halogen-free
860455	LaneLED WALL, connector with 4 bore steel, V4A, 1.4404
860210	LaneLED WALL, protective bracket black, plastic, UL94-V0, halogen-free
860586	LaneLED WALL, protective bracket steel, V4A, 1.4404
860208	LaneLED WALL, end cap black, plastic, UL94-V0, halogen-free
860642	LaneLED WALL, end cap, steel, V4A, 1.4404
860323	LaneLED WALL, bracket stainless steel, V4A, 1.4571
860595	LaneLED WALL, mounting bracket steel, V4A, 1.4404

Assortiment LaneLED WALL green

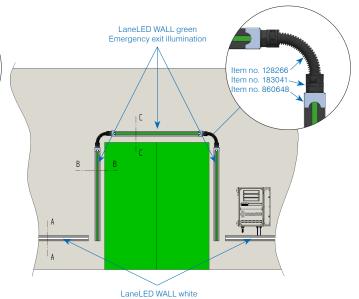
Emergency exit marking «fixed» with flat angle

Installation directly on tunnel wall with a 90° flat angle:

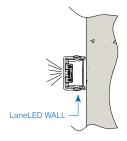


Door surrounding «flexible» with conduit

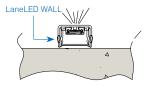
Installation of inclined light bars on angle profile (45°):

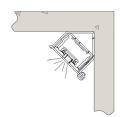


Cut A-A/C-C:

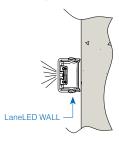


Cut B-B:





Cut A-A/C-C:

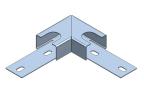


Cut B-B (45°):





Item no. 860648



Item no. 860578





LaneLED WALL green, 21-32VDC

	_				
Item no.	Length mm	Number of LED	Output W	Power mA	Luminous flux Im
860569	372	12	3	120	190
860570	1110	36	9	360	570
860571	2956	96	24	960	1520

Other versions on request

Item no.	Description
860578	Flat angle 90°, steel, V4A, 1.4404
860648	LaneLED WALL, end cap with drilling, steel, V4A, 1.4404
860579	LaneLED WALL, mounting bracket 45°, steel, V4A 1.4404
183041	Conduit gland
128266	Flexible conduit
174626	Angle profile 45°, steel, V4A, 1.4404



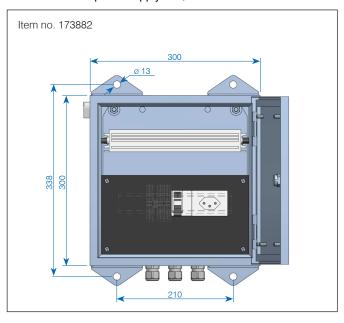
Power supply

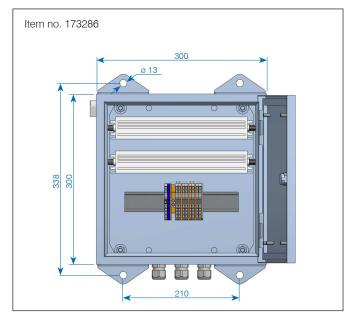
The electric power supply of the LaneLED light bar is ensured through power supplies that are individually installed into the main or sub-distribution or that are directly built into the housing on site. (housing in hard rubber, polycarbonate or steel)

The supply of 21-32 VDC (nominal power 24VDC) is usually provided by a power supply 230 VAC – different output sizes are available! (In each case depending on the total lighting length and the performance of the desired LED light output).

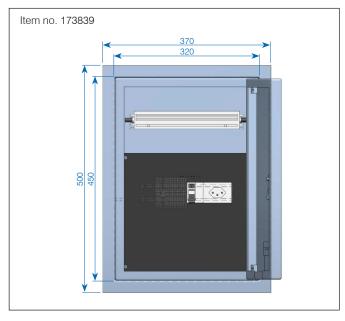
According to customer requirements, the power supply can also be installed anywhere in a distributor or in a socket.

Surface-mounted power supply with/without service socket





Recessed-mounted power supply with/without service socket



500	

Item no. 173288

Item no.	Description
173882	Surface-mounted box V2A, 300×300×210 mm, mains unit 1×240 W with service socket
173839	Recessed-mounted box V2A, $320\times450\times170\mathrm{mm}$, mains unit $1\times240\mathrm{W}$ with service socket, FI + T23

Further	executions	on	request

Item no.	Description
173286	Surface-mounted box V2A, 300 \times 300 \times 210 mm mains unit, 2 \times 240 W
173288	Recessed-mounted box V2A, 320 \times 450 \times 170 mm mains unit, 2 \times 240 W



Install the mains supply distributor and power supply in a suitable place, then connect and energise them (functional control of LED light bars)



Assembly and connection of current collector



Assembly of stainless steel mounting profile on wall/ceiling



Connect the connection cable of the light bar with the current collector



Install connection bracket



Final installation of the LaneLED light bar into the profile by clicking/snapping into place



Laying the supply cable into the profile



Click safety bracket into place (pictured plastic bracket is not suitable for tunnel applications)





Item no. 176955

Item no. 138524

Assembly equipment for rent

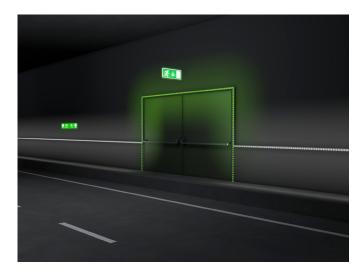
Item no.	Description
138524	LaneLED cable reel trolley for cable reel max. Ø 500×500
176955	Wall scanner for detecting iron
860565	Crimping tool mechanical for current collector/system cable
179280	Battery pack 24 V, 7.2 Ah

Other versions on request

Areas of application



Use and application possibilities



- to signalise escape routes in road tunnels



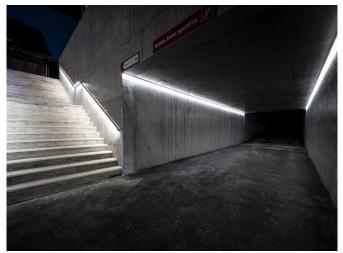
- unobtrusive and efficient illumination of waiting halls
- shelters
- train stations and waiting areas



- bike path, walkway and roadway illumination
- Handrail and crash barrier illumination



- ceiling lighting for railway station buildings and stops
- general and basic illumination for halls and buildings of all kinds



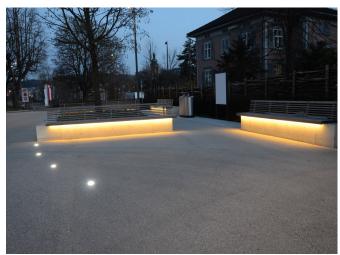
Sembrancher railway station (underoass: LaneLED WALL, stairs: LaneLED INOX42)



Sembrancher railway station (ceiling: LaneLED WALL, staircase: LaneLED INOX42)



Car park Troistorrents



Bench in Flawil



Cycle path Ittigen

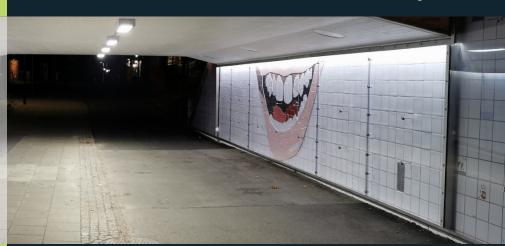


Pedestrian bridge in Chur

News about the assortment and specific solutions you can find on our website:

www.gifas.ch







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