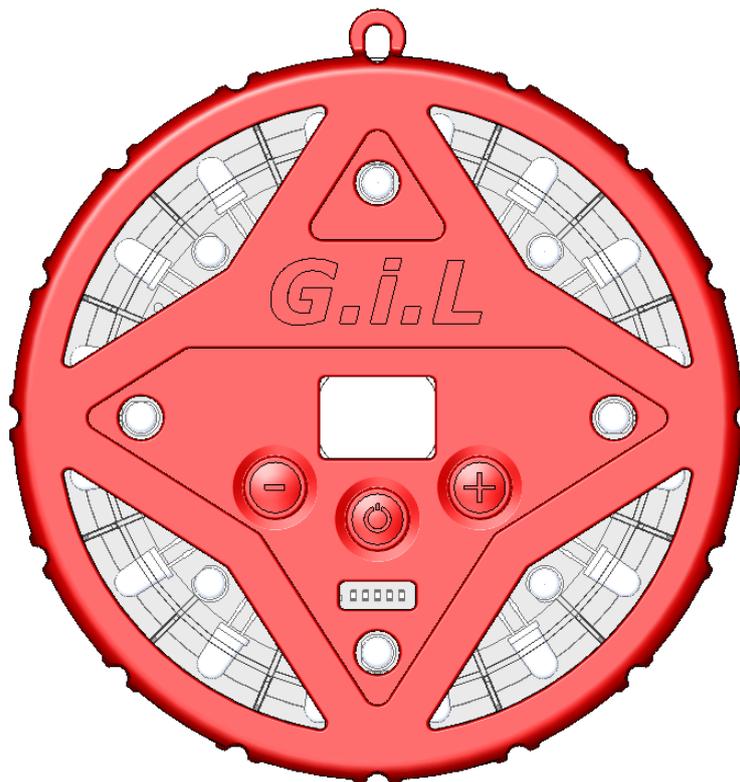


Operating Instructions



G.i.L (V01)

Certificate Number BVS 17 ATEX E 102 (DEKRA EXAM BOCHUM)

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Warnings:



Attention must be paid to merely using the device if undamaged; at the slightest hints that a defect is present the marker light must not be used.



Never look directly into the LED! This can cause permanent damage to the eye.



G.i.L. may only be attached with the carrier plates provided by the manufacturer. Each carrier plate may only be used once per operation. If a carrier plate is reused, adhesion of the light to the ground is impossible.



Only use batteries type Energizer L91 AA 1,5V 2900mAh.



The device may only be maintained with the maintenance set provided by the manufacturer.



Maintenance / battery change may only be carried out by appropriate qualified personnel.



WARNING !
DO NOT OPEN WITHIN AN EXPLOSIVE AREA.



Fields of Application

G.i.L® [djiill] is the explosion-proof marker light that can be attached to almost all grounds with the help of a carrier plate and an adhesive technology without leaving any residues.

G.i.L® can be used for the labelling of deployment sites, building entrances, hazardous situations of any kind within and outside of explosive areas of zones 2 and 22. Through the usage of the marker light it quickly becomes apparent for everyone where the loss event is located. As a result, precious/vital time is saved.

Designations Go in Light



Versions

| | | | |
|----------------------|---------------------------|------------|------------------|
| G.i.L (R V01) | Go in Light Red | Version 01 | (color red) |
| G.i.L (Y V01) | Go in Light Yellow | Version 01 | (color yellow) |
| G.i.L (G V01) | Go in Light Grün | Version 01 | (color green) |
| G.i.L (O V01) | Go in Light Orange | Version 01 | (color orange) |
| G.i.L (X V01) | Go in Light variable | Version 01 | (color variable) |

Directives and Standards

The manufacturer declares that the product G.i.L (Go in Light) complies with the conditions laid down in these directives:

| | |
|------------|---|
| 2014/30/EU | Directive Relating to Electromagnetic Compatibility |
| 2014/34/EU | ATEX Directive |
| 2014/35/EU | Low Voltage Directive |

and that the compliance with the following standards is given:

| | |
|-------------------------|---|
| DIN EN 55022A | Limit value class A (living area) |
| DIN EN 55022B | Limit value class B (industrial environment) |
| DIN EN 61000-6-2 | Generic immunity standard industrial environment |
| DIN EN 60079-0 | Potentially explosive atmospheres general requirements |
| DIN EN 60079-15 | Explosive atmosphere equipment protection through ignition protection 'n' |
| DIN EN ISO/IEC 80079-34 | Potentially explosive atmospheres application of quality management systems |
| DIN EN 60079-31 | Dust explosion protection |
| ISO 2768-mK | General tolerances |



Technical Data :

| | |
|-----------------------|---|
| Explosion Protection: | II 3G Ex nA IIC T6 Gc (zone 2) II 3D Ex tc IIIC T70°C Dc (zone 22) |
| Ambient Temperature: | -15°C up to +60 °C |
| Storage temperature: | 15°C up to 35°C (<i>dust-free and at low humidity</i>) |
| IP-Class: | IP67 |
| Batteries: | Energizer L91 AA / 1,5V 2900mAh (connected in series 3V, 2900mAh)  |
| max. voltage: | 3,6 V |
| max. current: | 310 mA |
| max. power: | 1,116 Watt |
| LED: | Farbe = variabel ($\leq 5 \text{ mW/mm}^2$) |
| Seal rings: | NBR 70 |
| Threaded bushes: | infused 11SMnPb30/1.0718; surface yellow zinc plated Fe/Zn 5-8 C |
| Schrauben Gehäuse: | ISO 4762 M4x14 (cylinder head screws); 1.4301; tightening torque = 1,6Nm |
| Dimensions: | Ø 115 mm / height 45 mm |
| Housing Volume: | 104 cm ³ |
| Weight: | 230g |
| Service life: | approx. 60 hrs. in continuous operation (<i>longer depending on blinking pattern</i>) |

Specifications:

- 16 high-performance LEDs in the scope
- 8 high-performance LEDs at the front
- Numeric display from -9 up to 99
- A battery level indicator with 5 light-emitting diodes (*2 green, 2 yellow, 1 red*)
- The display color of the LEDs is in accordance with the protective cover (*G.i.L X V01divergent*)
- Fast operational capability
- Waterproof
- Low weight
- Carrier plate can be attached to almost all grounds that are not brittle or dry
- Hermetically sealed housing with protective cover containing silicone
- 4 different blinking patterns



Scope of Supply:

- 1 x Go in Light **G.i.L**
- 2 x batteries
- 1 x carrier plate
- 1 x carry strap

Supplies:

- Carrier plate-packages of minimum 5 pieces
- Battery-set
- Maintenance set
- Bag for G.i.L
- Carry strap



Operation:

On/Off Button

- Press 1 x: Battery level **indicator** and numeric display light up for **activation** and **battery testing**. If no further buttons are pressed, the display turns off after a few seconds. (Step 1)
- Press 2 x: Activate **blinking pattern 1** (has to take place before step 1 is deactivated)
- Press 3 x: Activate **blinking pattern 2**
- Press 4 x: Activate **blinking pattern 3**, i.e. pointing in the right direction
- Press 5 x: Activate **blinking pattern 4**, i.e. pointing in the left direction
- Hold for 2 sec.: **Deactivating** the light

+/- Buttons

Via the +/- buttons the numeric display can be managed.

Numeric setting from -9 up to 99. The longer the +/- buttons are pressed, the faster the counting up. It is recommended to first adjust the numeric display and then the blinking pattern. The numeric display for example shows the floor or how many people are located in the respective object or are missing

Advice: **Activation** and **battery testing** can also be started via the +/- buttons.

Attachment of G.i.L:

- Select the requested mode of operation and activate the numeric display if applicable
- Remove protective film from carrier plate immediately prior to adhesion
- Attach G.i.L at eye level, preferably to a ground that is not brittle or dry
- Reminder: Building components made of plastic, polished stone slabs, metal or glass are preferred because the holding force is strongest on them, no matter if building, wagon, ship, vehicles, or the like.
-

Figure 1)

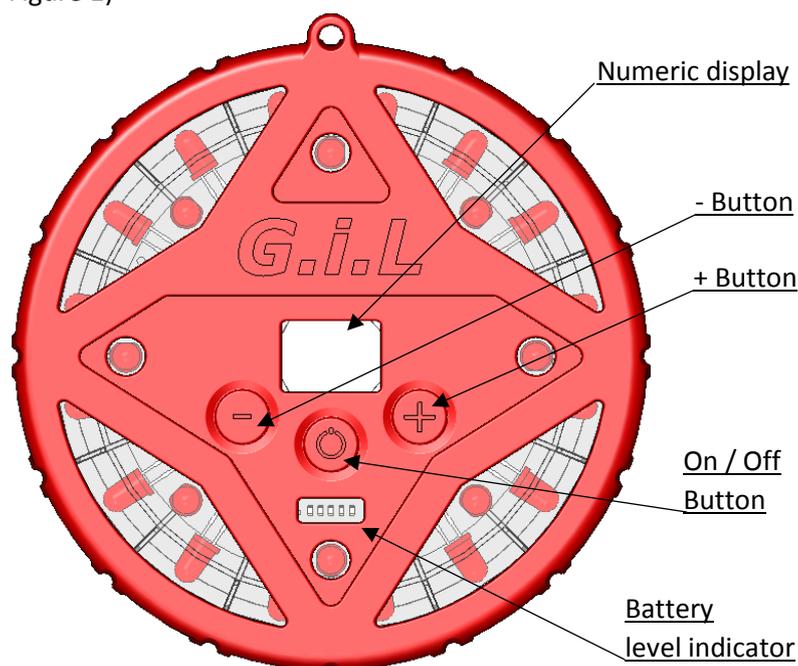
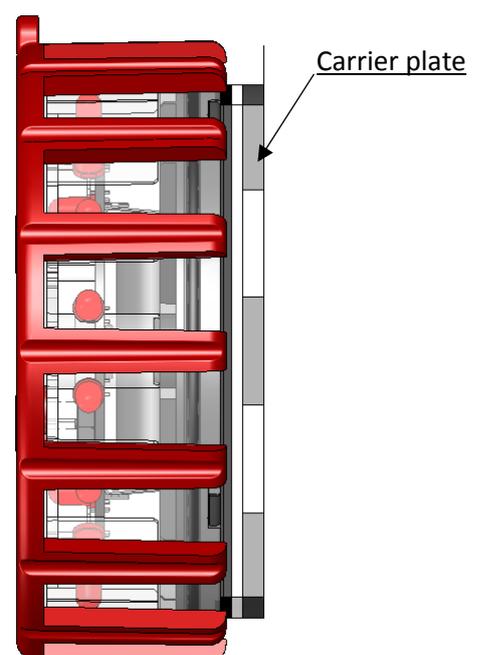


Figure 2)



Maintenance / Battery Change:



Maintenance and battery change may **only** be carried out by appropriate qualified personnel. The device must **not** be opened inside of an explosive area.

1. Dismantling

To open the housing (Pos.001) both screws (Pos.012) in the lid (Pos.003) need to be loosened counterclockwise with a suitable hexagon socket key (Allen) and removed. The removal of the lid (Pos.003) via the four plastic juts is recommended.

Attention! Avoid damage to the O-Ring (Pos.008), housing (Pos.001) and lid (Pos.003).

2. Replacement of batteries and seal rings

Remove batteries (Pos.011) from the bracket and properly dispose of them into the old batteries collection. Insert new batteries and pay attention to the appropriate polarity! Markings are to be found on the board (Pos.002). ⚠ It is recommended to remove the seal rings (Pos.007,008) every six months and replace them by new ones. For this, remove the old seal rings and place the new seal rings slightly greased into the respective grooves (grease is included in the maintenance set). Only batteries (Pos.011) of the brand Energizer L91AA and seal rings (Pos.007,008) from the maintenance set of VennTec GmbH can be used. (see warnings)

3. Reassembly

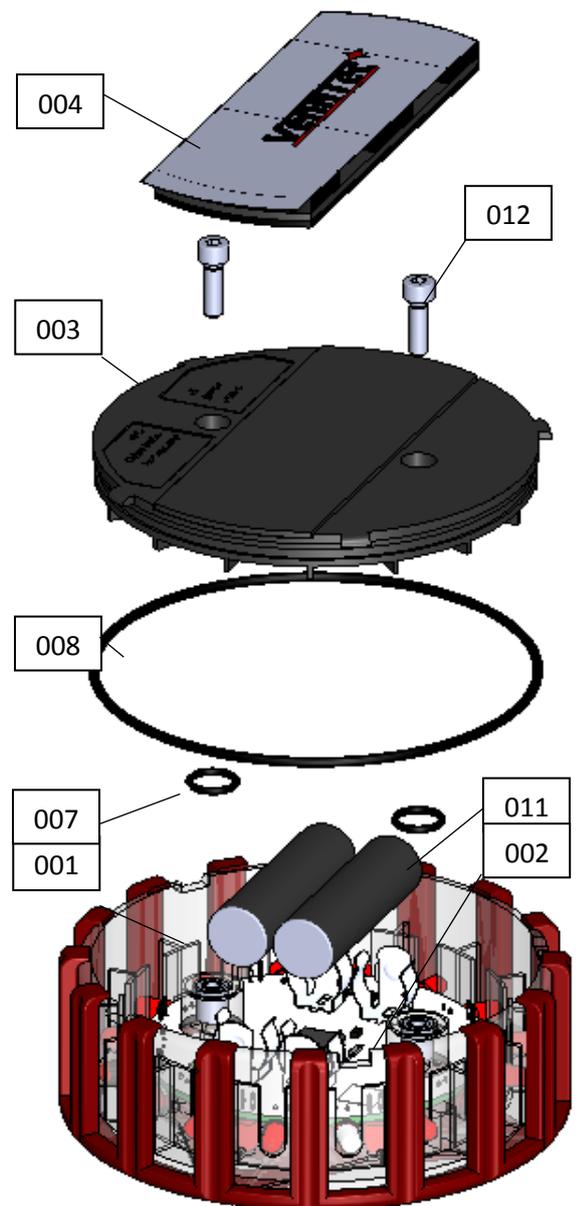
Reseal housing (Pos.001) with the lid (Pos.003), while doing so pay attention to the positioning of the plastic juts to ensure the right position of the lid (Pos.003). While placing the lid make sure that the black seal ring (Pos.008) **evenly** slides into the housing. Tighten the screws (Pos.012) with 1,6 Nm again

4. Attaching the carrier plate

Take the carrier plate (Pos.004) out of the packaging and merge the fleecy side with the hooked side of the Velcro tape on the lid (Pos.003). (see figure 2)

5. Functional test

Keep holding the On/Off – button simultaneously with the + and – button. If all lamps including the numeric display “88” are active, a faultless usage of G.i.L. is warranted.



Maintenance Interval:

After each usage, a visual inspection has to be carried out to check the housing components for damages. Additionally, we suggest renewing the seal rings every six months.

Certificates:

Patent application: German Patent and Trade Mark Office AKZ 10 2016 104 297.8

ATEX Certificate Number BVS 17 ATEX E

Registered brand ® **G.i.L** Register No. 30 2016 100 445



II 3G Ex nA IIC T6 Gc (zone 2)
II 3D Ex tc IIIC T70°C Dc (zone 22)



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|--|
| <p>Aachen University of Sciences Department of electrical Eng. Laboratory for Communications Engineering and electrical Compatibility.</p>  |
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| <p>DEKRA EXAM GmbH Specialist unit for safety of Electrical equipment BVS.</p>  |
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Disposal:

Dispose of the device correctly according to the national disposal guidelines (i.e. WEEE within the EU) and the guidelines of the local disposal partner.

WEEE-Reg.-Nr. DE 14956216



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