smart
GasDetection
Technologies

M21 illuminated sign series

Visual and acoustic alarm for many applications

CO$_2$ Alarm
Raum verlassen

smart
GasDetection
Technologies

GfGsafety.com

M21 illuminated sign series

Visual and acoustic alarm for many applications

With the illuminated signs of the M21 series, GfG offers seven alarm signs designed for the requirements in commercial and industrial environments, which excel by their low energy consumption and easy installation.

All illuminated signs have a brushed aluminum connection box with mounting brackets for wall and ceiling installation, LED strips with 6 red LEDs, one or two acrylic illuminated panels with reflector plate and an integrated buzzer.

For easy ceiling or wall installation, the illuminated banners have mounting brackets that can be offset by 90°.

Model	Dimensions (W x H x D)	Connection	Display
M2159-2L	290 x 130 x 30 mm	2-wire	single-sided
M2159-3L	290 x 130 x 30 mm	3-wire	single-sided
M2160-2L*	600 x 130 x 30 mm	2-wire	single-sided
M2161-2L	410 x 130 x 30 mm	2-wire	single-sided
M2161-3L	410 x 130 x 30 mm	3-wire	single-sided
M2162-2L	410 x 130 x 30 mm	2-wire	double-sided
M2162-3L	410 x 130 x 30 mm	3-wire	double-sided

* only available for exhaust gas monitoring

Ceiling mounting   *Wall mounting*

In the 2-wire versions, the buzzer and LEDs are controlled together. The 3-wire versions allow the buzzer and LEDs to be switched separately. In addition, the volume of the buzzer (max. > 100 dB(A) / min. 75 dB(A)) can be regulated in two stages.

Power supply

All illuminated signs come with an 85 cm long connection cable and operate with 24 V DC. The supply is without continuous voltage (voltage is only applied in the event of an alarm). The power consumption for all signs up to 410 mm is 25 mA each for the LEDs and the buzzer (total 50 mA at 24 V DC = 1.2 W). In the case of the M2160-2L for underground garages, the power consumption for the LEDs is 85 mA and 25 mA for the buzzer (total 110 mA at 24 V DC = 2.64 W). Any emergency power supply that may be required is provided externally.
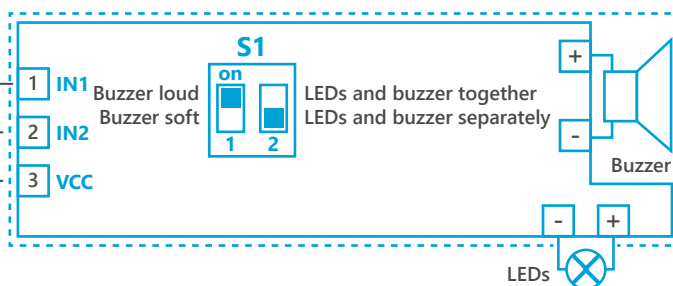
Visual and acoustic alarm

In the event of an alarm, the luminous sign gives both a visual and an acoustic warning. On the one hand, the warning is indicated by a bright flashing red light. It is displayed at 0.5 Hz for 1 second at a time. The acoustic alarm is continuous.

Individual messages

The illuminated signs of the M21 series are available with both single-sided and double-sided labeling, according to the requirements on site. The information displayed can be customized. Both classic instructions via text and language-independent pictograms are possible. The LED illuminants have an operating life of 50,000 hours.
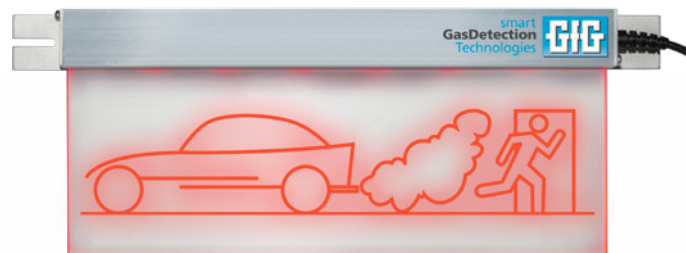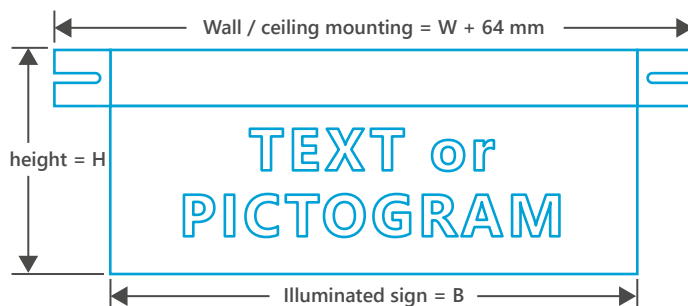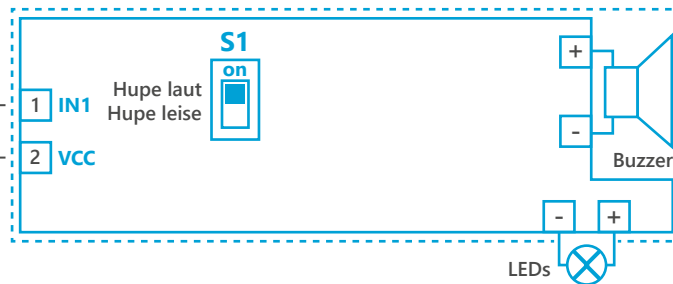
3-wire version

Cable
white — LEDs
brown — Buzzer
green — +24 V voltage

S1
1 IN1
2 IN2
3 VCC

on
Buzzer loud
Buzzer soft
1 2

LEDs and buzzer together
LEDs and buzzer separately

+
-
Buzzer

- +
LEDs

2-wire version

Cable
black — LEDs and buzzer
white — +24 V voltage

S1
1 IN1
2 VCC

on
Hupe laut
Hupe leise

+
-
Buzzer

- +
LEDs

Wall / ceiling mounting = W + 64 mm

height = H

TEXT or PICTOGRAM

Illuminated sign = B

Technical data: M21

Display & Alarms			
Text / pictogram:	according to your specifications		
Recognition:	single-sided or double-sided (M2162 only)		
Recognition distance:	40 to 60 m		
Illuminant:	LED strip		
Lifetime:	50.000 hours		
Flashing interval:	0.5 Hz		
Light duration:	1 s		
Buzzer:	> 100 dB(A) / > 75 dB(A)		
Buzzer duration:	continuous		

Dimensions & Mounting			
Illuminated panel:	290 x 100 x 4 mm (W x H x D)	410 x 100 x 4 mm (W x H x D)	600 x 100 x 4 mm (W x H x D)
Reflector plate:	290 x 100 x 2 mm (W x H x D)	410 x 100 x 2 mm (W x H x D)	600 x 100 x 2 mm (W x H x D)
Illuminated sign:	354 x 130 x 30 mm (W x H x D)	474 x 130 x 30 mm (W x H x D)	664 x 130 x 30 mm (W x H x D)
Mounting position:	horizontal		
Mounting location:	ceiling or wall		
Connection cable:	85 cm		

Weight	
M2159:	480 g
M2160:	990 g
M2161:	675 g
M2162:	790 g

Power supply			
Supply / control voltage:	24 V DC (10 to 28 V DC)	24 V DC (10 to 28 V DC)	24 V DC (10 to 28 V DC)
Power consumption:	max. 1.2 W	max. 1.2 W	max. 2.65 W
Maximum current:	50 mA	50 mA	110 mA

Application area & environmental conditions			
Application:	Industrial applications	Industrial applications	Underground parking garages
Protection class:	IP40		
Temperature:	-40 to +50 °C		
Humidity:	10 to 90 % r. h. at 40 °C (non-condensing)		
Marking:	CE		