

INTRINSICALLY SAFE LED LAMP LIL-1



- Operates at any concentration of Methane
- Possibility to choose the angle of light and colour for each LED
- Possibility to use as a signalling device, e.g. on the routes of trains
- Can be used as the mining train light

The LIL-1 intrinsically-safe LED lamp is used mainly for illuminating explosion hazard areas. The LIL-1 emits light of different colours; therefore it can be also used as a signaling device.

The lamp can be used in anti-explosive video monitoring systems to illuminate the cameras' fields of view and in mining trains to illuminate the path and signalize the end of the train.

The LIL-1 LED lamp is an intrinsically-safe device classified as group I and II (I M1, II 1G, II 1D) ensuring an "ia" level of safety. The lamp can be used in mining areas belonging to "a", "b" and "c" degrees of explosion hazard.

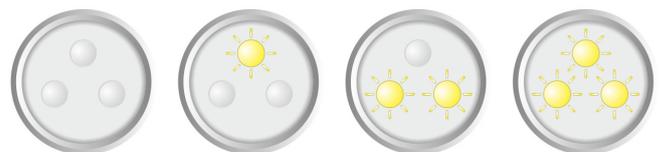
Lamp features are customized to individual customer needs at the time of ordering (LED colours, light

angles, signalling function). Mounting methods can also be customized to individual customer requirements after consulting with the manufacturer. The standard handle is adjustable in two axes.

The lamp can be fitted with LEDs that emit different colours of light (standard or warm white, red, green, yellow or infrared).

For each of the three LEDs, you can choose a lens with a different light scattering angle.

Possible configuration of LEDs:



TECHNICAL SPECIFICATIONS

Nominal power supply voltage	12 V DC ±10%
Power consumption	typ. 500 mA
Lamp light colours	white, red, infrared, yellow, green
Lamp intensity for lamp with 3 LEDs (3m from lamp)	
with 15° lens	about 250 lux
with 25° lens	about 55 lux
Operating conditions:	
operating temperature	-25° to +50° C
storage temperature	-25° to +70° C
air humidity	max 95% in temperature 40° C
Degree of safety provided by enclosure	IP65
Anti-explosive feature	I M1, Ma Ex ia I, II 1G, Ga Ex ia IIB T4 II 1D, Da Ex ia D 20 T85 -25°C ≤ Ta ≤ +50°C
Dimensions (without handle)	Ø114 x 209 mm
Mass	about 3,5 Kg