

## about GuardMagic DLLE1ct

### 1 INTRODUCTION

#### Notes:

- **GuardMagic DLLE fuel level sensor is used (working) only together with GuardMagic JBB01 spark protection module (INTRINSICALLY SAFE BARRIER).**
- **GuardMagic DLLE fuel level sensor is marked by blue circle on the top.**

**GuardMagic DLLE1** fuel level sensor is an Explosive Proof Fuel level sensor with digital communication interface for standard and heavy application.

**GuardMagic DLLE1** fuel level sensor designed with the EX equipments requirements (ATEX rules. Classification: II 1G Ex ia IIA&IIB T6).

**GuardMagic DLLE1** measured road located in explosive “0” zone.

**GuardMagic DLLE1** sensor detects fuel level in the fuel tanks and sends information about current level in the form of digital code with 10 or 12 bit resolution to the external device.

**GuardMagic DLLE1** is intended for mobile and stationary application (road fuel tankers, fuel storage tanks, fueling station etc.).

**GuardMagic DLLE1** sensors utilize the capacitive technology to produce accurate liquid level measurement mainly of: crude, oil, fuel oil, diesel fuel, petrol (gasoline), kerosene, jet fuel.

**GuardMagic DLLE1** sensor allows build “multi tanks” system (sensor serial connection).

**GuardMagic DLLE1** has a digital communication interface – EIA-485 (old name - RS 485).

**GuardMagic DLLE1** is solid-state devices with no moving parts.

**GuardMagic DLLE1** has die cast aluminum “head” for anti vandal protection, reinforced construction and strong mounting.

**GuardMagic DLLE1** can be installed:

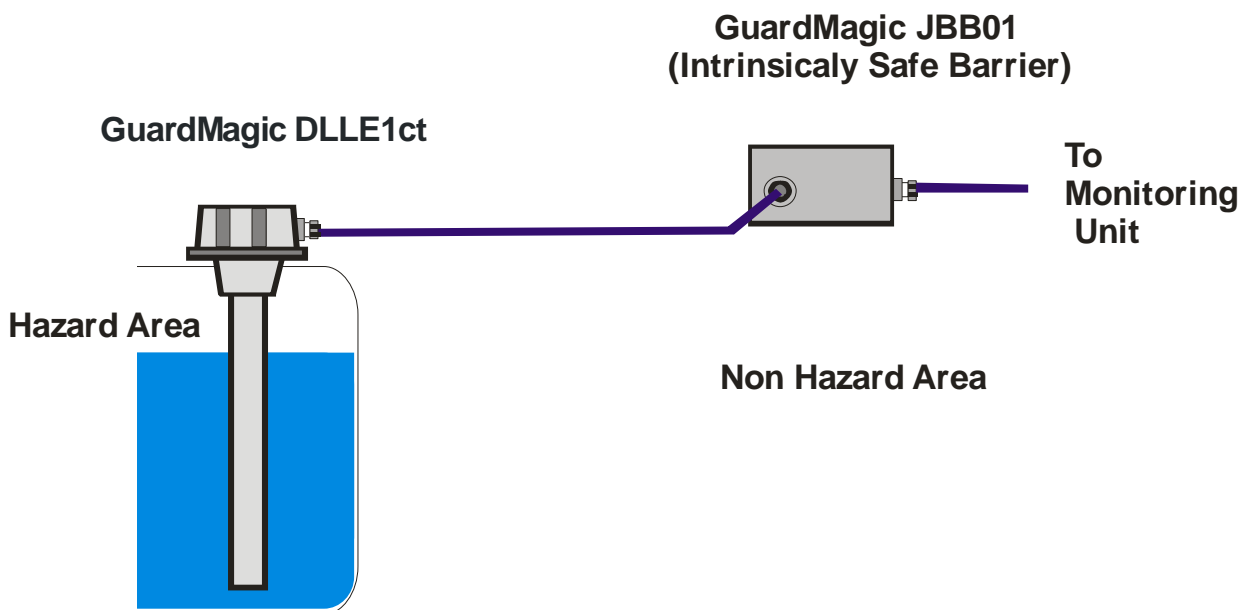
- in any type of motor vehicles;
- road fuel tankers;
- fuel storage tanks;
- etc.

**GuardMagic DLLE1** digital fuel sensors are universal and consequently are adjusted on concrete depth of fuel tank. The sensor's tube only should be cut according for the depth of fuel tank and then a just it.

Sensors length marks as: GuardMagic DLLE1ct-XXXX  
 (“XXX” means the length of sensor in mm).



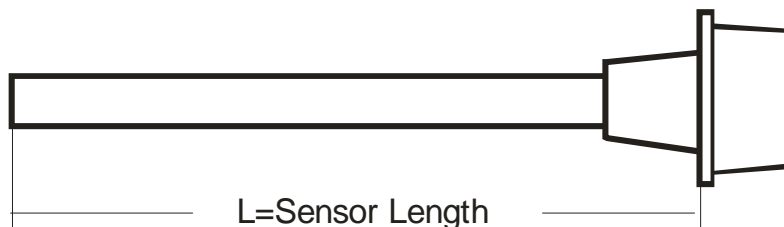
## 2 SENSOR CONNECTION STRUCTURE



**GuardMagic DLLE1 fuel level sensor working only together with GuardMagic JBB01 Intrinsically Safe barrier.**

## 3 SENSORS LENGTH

Available sensors length:



- L= 1300mm
- L= 1500mm
- L= 1700mm
- L= 2000mm
- L= 2500mm
- L= 3000mm

Notes:

- 1) Sensors length marks as: GuardMagic DLLE1ct-**XXX** ("XXX" means the length of the sensor in mm).
- 2) In installation procedure sensor can be cut up to the previous value of length (up to about 30%).
- 3) Length of sensor cable: 3 meters