



**CEP3 In line sensing system  
 Underground Solution**



**CEP4 Above Ground Solution**

## CELSafe Passive Disconnection

In support of the Government’s drive to reduce the human and financial cost of Road Traffic Accidents, CEL has developed the CELsafe Electrical Disconnection System which meets the latest requirements of BSEN 12767. Within the CELsafe range two systems – CEP3 and CEP4 are available to meet specific project requirements. They both provide safe and automatic disconnection of the electrical supply following vehicle impact to a lighting column.

<p><b>CEP3</b></p>	<p>The system is based on a tilt switch and MCB shunt trip in an IP box in the ground chamber. A tilt switch housed with the column isolator controls the shunt via a looped circuit. A violent impact or 14 degree inclination of the column will cause the shunt to trip the MCB resulting in electrical disconnection. Physical disconnection of the plug/socket will also cause the shunt to trip the MCB.</p> <p>The unit is not effected by interruption of the incoming supply.</p>	
<p><b>CEP4</b></p>	<p>An above ground solution. All electrical control equipment is contained in a feeder pillar with each circuit having multiple columns connected, hence in a knock-down situation only the columns on the same circuit will be put out of light. This system provides easier and economical installation, i.e. no underground chamber, and simpler reinstatement in the case of a knock-down.</p> <p>Each column is fitted with a tilt switch on a looped circuit back to a distribution board circuit in a nearby feeder pillar. As the sensor is an electro-mechanical device it draws no current. On impact the tilt switch activates causing the isolation device to operate, therefore switching off the electricity supply in less than 0.4 seconds. A CELcom device can be installed in the feeder pillar which uses GPRS (GSM) technology to send SMS and email notifications of a knock-on to multiple nominated mobile telephones and email addresses. <i>(See overleaf for more detail.)</i></p>	

# CELcom Alarm Monitoring and Control

A compact monitoring alarm and remote control device for electrical/electronic equipment with support of Short Message (SMS), phone calls, e-mails and GPRS connections. The device is programmed through an internal web server interfaced via GSM network and RS232 interface. Multiple pre-programmed users can control CELcom or be notified on configurable events.

## Applications

- In CEP4 Passive Safety System -  
In the event of a column being struck and disconnected , a preset SMS or e mail message will be sent giving details of location, e.g.:

Holes Bay RBT, West bound. Feeder Pillar FP3 Passive Safety System activated. Engineer required on site.

- In a feeder pillar to control lighting where activation by remote switching is required, e.g.:

High Street Christmas lights on.



## Features

Inputs	2 x Analogue inputs 0-10 volt & 4-20mA 4 x Digital Inputs
Outputs	4 x Relay outputs 7A rated (C/O)
Communications	SMS text message out to any number of users Email message out to any number of users Call - drop call a phone number Control SMS message in Call - drop call in Remote access
Internal Functions	Built in calendar and time function Built in fault event logger PSU required (24v DC)
Applications	CELSafe - Instant reporting of activations Remote Festive Lighting Control Surge Protection - Alarm Reporting MUGA Pitch Remote Control Water Level Alarm and/or Pump Failure Lone Worker & Unauthorised Access Fixed Level Light Control

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