

ELOshock²

› Shock Detector



- › PROTECTION AGAINST INAPPROPRIATE USE AND ABNORMAL STRESSES
- › COST-EFFECTIVE STANDALONE SOLUTION
- › SIMPLE FITTING AND CONFIGURATION
- › SUITABLE BOTH AS INITIAL EQUIPMENT AND FOR RETROFITTING
- › SUBSEQUENT EXTENSION WITH THE ELOFLEET SYSTEM POSSIBLE



> Function and product description:

The **ELOshock²** is an electronic programmable module which is used to minimise damage of and to forklift trucks by abuse. Acceleration values which arise in case of a collision are determined precisely and evaluated.

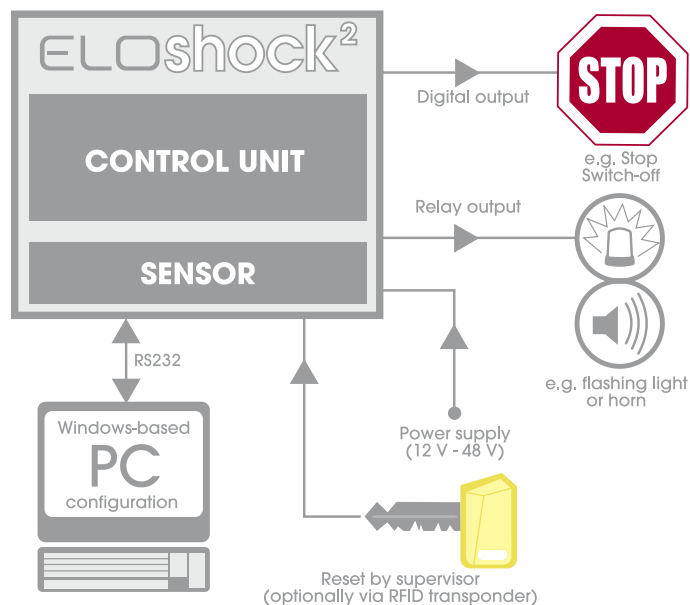
If the shock values exceed a previously defined threshold, up to two signals can be emitted which then trigger corresponding reactions on the fork lift. This can, for example, mean a reduction in speed for a certain time (warning threshold) or braking to a standstill when the alarm threshold is reached.

The threshold values can be configured simply and completely independently of each other with the Windows-based PC software. The switching logic and the switching behaviour (e.g. time delays, switch-off duration) are also adjustable in this way. This ensures that the **ELOshock²** can be set up on all kinds of vehicles and forklift trucks and can be ideally adapted to all deployment conditions.

If required it is also possible to set up the **ELOshock²** to perform a mandatory reset once one or both threshold values have been reached. In this case a responsible person must give approval by means of a key switch (supplied) or a transponder (optional available). This allows accident causes and black spots to be better identified.

One distinctive feature of the **ELOshock²** is the energetic analysis of acceleration values. Not only the shock strength (intensity) but also the energetic shock content is measured and analysed. This can also be adapted to the deployment

> Fitting schema:



conditions with the PC software. This prevents unwanted switching off if, for example, the forklift truck runs over an expansion joint.

The **ELOshock²** is especially robust due to its construction (capsuled metal housing and cast sensor unit). The **ELOshock²** is also simple to fit and can also be combined and extended with ELOKON's **ELOfleet** equipment control system.

> TECHNICAL DATA

ELOshock²

Application area	Measurement across two axes, four directions, static acceleration can also be measured
Power supply	12 V ... 48 V (± 20%)
Power input	4 W
Outputs	1. One 30 V / 5 A relay output 2. One negative-switching (NPN) digital output 100mA max.
Serial interface	RS232 for configuration und diagnosis
Switching logic	Switched-on state, switching delay and switching duration adjustable Energetic shock filter to mask out uneven ground, expansion joints, etc.
Dimensions	Sensor: 80 mm x 34 mm x 20 mm (L x B x H) Control unit: 150 mm x 100 mm x 34 mm (L x B x H)
Total weight	470 g
Protection type	IP 65
Operating temperature	-30°C ... +60°C
Max. measurement range per axis	up to 40 g
Bandwidth	400 Hz