

FLASHMOTION SHOPPING LIST

| # | <u>RESISTORS</u> | ✓ |
|---|-----------------------|---|
| 1 | 10Ω | ☐ |
| 2 | 33Ω | ☐ |
| 1 | 1 kΩ | ☐ |
| 1 | 3.3 kΩ | ☐ |
| 2 | 10 kΩ | ☐ |
| 2 | 33 kΩ | ☐ |
| 1 | 0...1 kΩ (adjustable) | ☐ |

| | <u>CAPACITORS</u> | |
|---|-------------------|---|
| 1 | 470 μF | ☐ |
| 2 | 100 μF | ☐ |

| | <u>TRANSISTORS</u> | |
|---|--|---|
| 2 | BC337 or 2N2222 (Many NPN-type transistors are suited) | ☐ |

| | <u>DIODE</u> | |
|---|-------------------|---|
| 1 | 1N400x or similar | ☐ |

| # | <u>LIGHT EMITTING DIODES</u> | ✓ |
|----|--|---|
| 16 | High-brightness white LEDs with small emission angle (about 15°–30°) | ☐ |

| | <u>MAGNET</u> | |
|---|--|---|
| 1 | Electromagnet (coil resistance 200Ω–1000Ω), for example a relay with an easily accessible coil | ☐ |

| | <u>SOLDER EQUIPMENT</u> | |
|---|-------------------------|---|
| 1 | Soldering iron | ☐ |
| 1 | »Third hand« | ☐ |
| 2 | Printed circuit boards | ☐ |
| | Some solder | ☐ |

| | <u>CABLES</u> | |
|---|---|---|
| 1 | Audio cable (to connect phone to pulse amplifier) | ☐ |
| 5 | Cables (to connect magnet and flash to pulse amplifier) | ☐ |

| | <u>BATTERY</u> | |
|---|----------------|---|
| 1 | 9V battery | ☐ |

