LED
Actuator Data Sheet

SPECIFICATIONS
> Color: Red
> Consumption: ~10mA

FEATURES
> Onboard current-limiting resistor
> Shielded miniaturized cables
> Small form factor
> Easy-to-use

APPLICATIONS
> Synchronization with video camera
> Optical marking
> Visual feedback

GENERAL DESCRIPTION
The LED is typically used to provide visual feedback to the user. A common need when working with biosignals is the synchronization of the recorded data with external recording devices (e.g. a video camera). If applied to a camera lens, the LED sensor can be used to introduce common markers in the recording, hence providing a synchronization source. The LED sensor can also be useful for optical synchronization with third-party devices (provided that the third-party device has a photo detector), in applications where it is important to have electrical decoupling between devices.

Fig. 1. Miniaturized form factor for improved ease-of-use.

Fig. 2. LED used on a camera lens for synchronization.
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**PHYSICAL CHARACTERISTICS**

> W x L x H: 1.0x1.8x0.4cm
> A: 105.0±0.5cm
> S: White, Black, Blue, Green, Red, Yellow, Gray, or Brown

<table>
<thead>
<tr>
<th>Reference</th>
<th>Package Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED1</td>
<td>LED actuator in a standard configuration</td>
</tr>
<tr>
<td>LED1-A-S</td>
<td>LED actuator built with custom lengths A and custom sleeve color S; for standard physical characteristics in A or S use 0.</td>
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</tbody>
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Examples:
> LED2-200-0: LED actuator with a 200cm cable A and random sleeve color
> LED2-0-Yellow: LED actuator with a standard cable size A and a yellow cable sleeve
> LED2-50-Red: Fully custom LED actuator with a 50cm cable A and a red cable sleeve