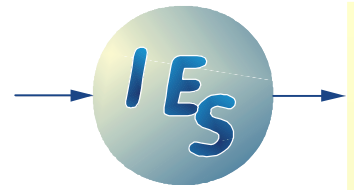


# IES 1106

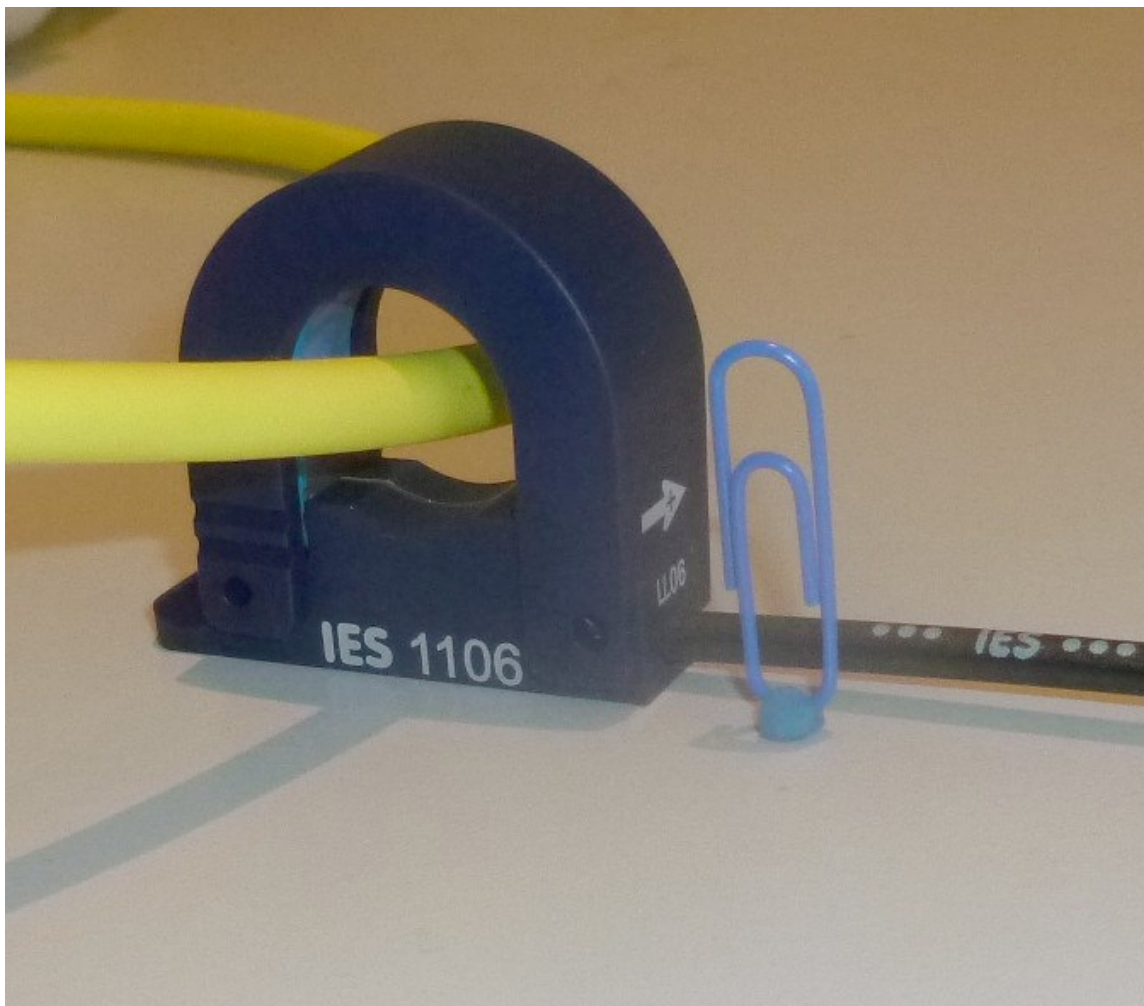
## Miniature Current Clamp



PRELIMINARY SHORTFORM DATA

Small current detection clamp with a hinged cap for the galvanical isolated detection of DC and pulsed currents with standard data acquisition systems. Mainly intended for the detection of short circuit or other abnormal currents in automotive safety tests and hybrid vehicle testing.

- ☺ **Very small size 35 x 35 x 16 mm<sup>3</sup>**
- ☺ **Low mass 28 grams**
- ☺ **Usable with standard DAS, only 18 mA supply current**
- ☺ **Shunt-Test supported**



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## Specifications

| Metrics       |   |
|---------------|---|
| Dimensions    | 35 x 35 x 16 mm <sup>3</sup> (plus handle 8 mm) |
| Weight        | 28 gr. plus cable                               |
| Cable         | 6 m long, black PUR                             |
| Hole diameter | 19 mm   |

| Environment       |   |
|-------------------|---|
| Temperature range | 0...70 °C                               |
| Acceleration      | shock proof, can be used in crash tests |

| Electrical Interface |  |                        |
|----------------------|--|------------------------|
| Power supply         | 10V, 18 mA   |                        |
| Output resistance    | 2,5 kOhms  |                        |
| Output signal range  | differential voltage +/- 2000 mV<br>positive output for positive current flow as indicated on cap, negative output signal for opposite current direction |                        |
| Zero output signal   | Max. 20 mV   |                        |
| Cable colours        |  |                        |
|                      | + Supply   | red                    |
|                      | - Supply or GND  | black                  |
|                      | + Signal output  | white                  |
|                      | - Signal output  | green                  |
|                      | Shunt input  | yellow                 |
|                      | Cable screen   | Not connected to case. |

| Measurement Performance |  |
|-------------------------|--|
| Measurement range       | +/- 600 A (overload allowed, useful signal up to 1000 A) |
| Noise                   | 1 mVrms  |
| Time delay              | <50 µs   |
| Typ. Sensitivity        | 3.6 mV/A   |
| Nonlinearity            | Max. 0.5% FS (for FS 600 A)                              |
| Zero uncertainty        | Typ. <1 A  |

**Ordering information: IES 1106**

Information is provided without warranty and is subject to change without notice. We reserve the right to make changes whenever necessary to improve to the product.  
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