DUAL-FLUX.COM

DUAL FLUX™

HIGHEST MEASUREMENT ACCURACY

DFX500


DUAL FLUX™



AC DC

CHANGING THE FUTURE OF PRECISION.

As industries evolve toward smarter, cleaner energy, precision becomes the key to progress. Every tenth of a percent in efficiency can redefine performance, reduce emissions, and make a measurable change. Our **DualFlux** measuring systems bring laboratory precision to industrial environments for both – AC and DC current.

Built on decades of scientific experience, these systems deliver proven stability and repeatability that drive innovation in automation, power electronics, and high-efficiency design.

From science to industry – we turn precision into progress.

FOR INDUSTRIAL APPLICATIONS.

In the **DualFlux** product family the focus is on precision, user-friendliness, and seamless integration. For demanding measurement and testing tasks, our system is engineered for maximum reliability.
Designed for industrial applications, it adapts effortlessly to diverse energy systems and testing environments. Every detail is made for performance.

- Test and measurement technology
- Medical technology
- Automotive and e-mobility
- Industrial energy systems
- Metrology
- Semiconductor manufacturing
- Aerospace

AC DC



MEASURING TECHNOLOGY THAT MAKES A CHANGE.

DualFlux combines exceptional accuracy with true AC and DC measurement in one compact solution. Thanks to Zero-Flux technology, it delivers outstanding linearity, an extended frequency range, low noise, minimal losses and excellent temperature stability.

Galvanic isolation and integrated no-load protection ensure reliable performance – even in the most demanding applications.

AC DC

SERIES **DFX**

Precision for both worlds: accurate measurement of DC and AC

The **DualFlux** product family is based on Zero-Flux technology. It revolutionises current measurement thanks to its exceptional accuracy and reliability, as it eliminates magnetic field interference and thus enables highly precise measurements. **DualFlux** sensors can measure both small and large currents with consistent accuracy and respond quickly to changes in current, making them ideal for dynamic applications.

DualFlux sensors are compact and can therefore be easily integrated into various systems. Furthermore, **DualFlux** sensors offer high accuracy and stability without the need for temperature control devices. This makes them extremely reliable even under changing environmental conditions.

Designed for demanding measurements, the DualFlux is Made for Performance.

AC DC

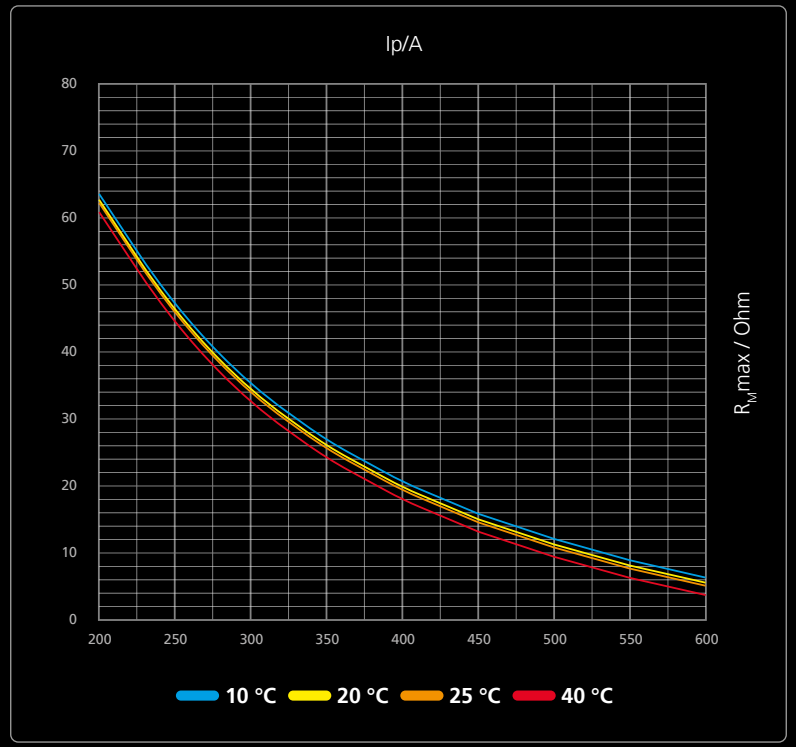


TECHNICAL DATA

Current Range:	**500 A_{RMS}**
Ratio:	**1:1500**
Output Range:	**0 … 333 mA**
Linearity:	**0.1 µA**
Offset:	**2.9 µA**
Supply voltage	**±15 V ± 0.5 V**
Max. Measuring Resistance[1]	**2.5 Ω**
Step Response (0 … 90 %)	**< 2.5 µs**
DC Accuracy	**9 ppm**
Offset Drift	**< 0.15 ppm/K (of I_{SN})**
Ambient operating temperature	**0 … + 40 °C**
Aperture	**Ø 34 mm**
Mass	**0.84 kg**

1: @25°C & 500 A RMS



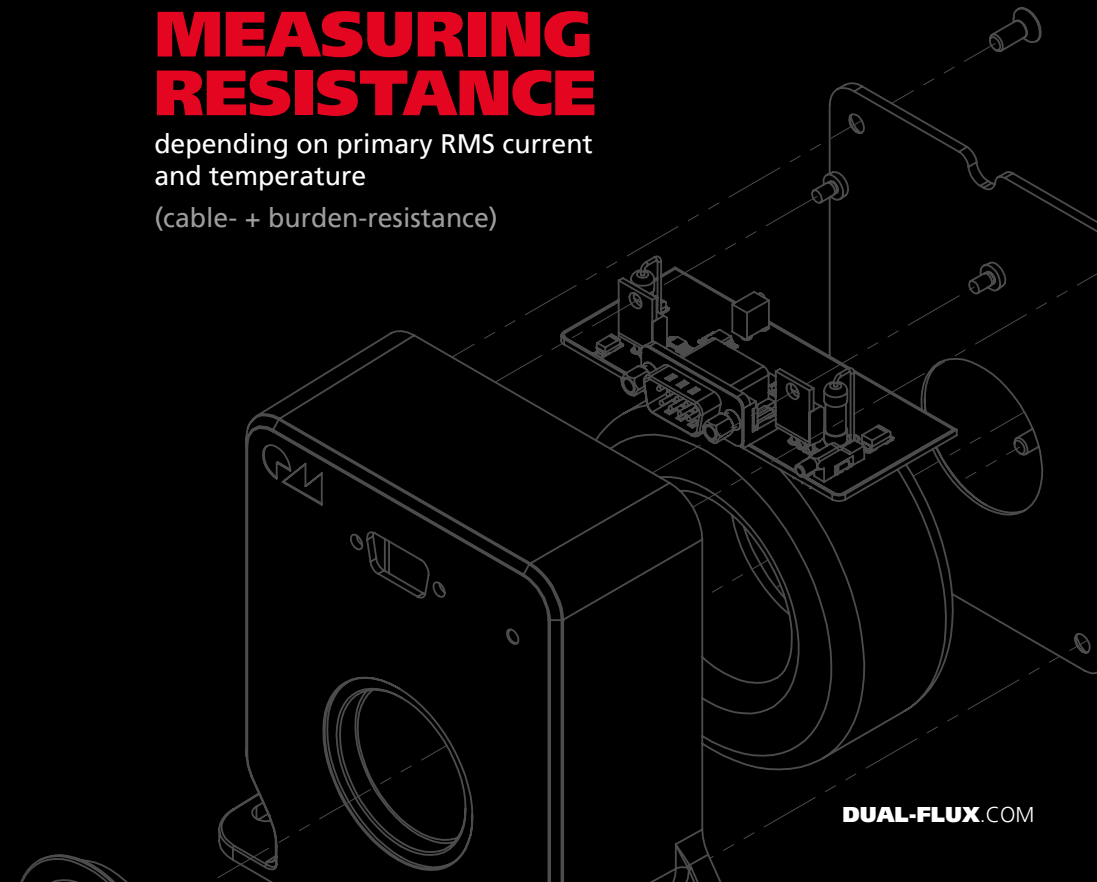


AC DC

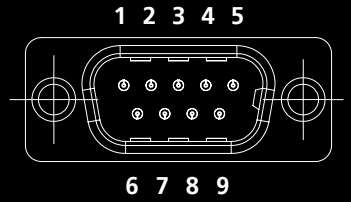
MAXIMUM MEASURING RESISTANCE

depending on primary RMS current and temperature

(cable- + burden-resistance)

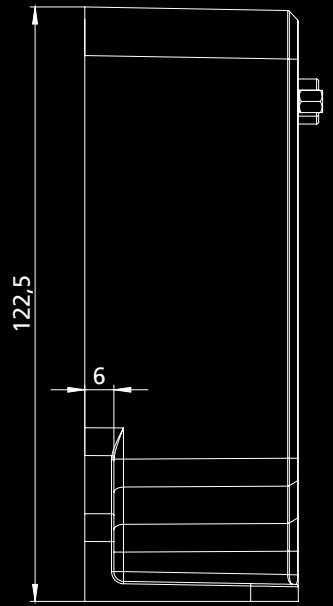


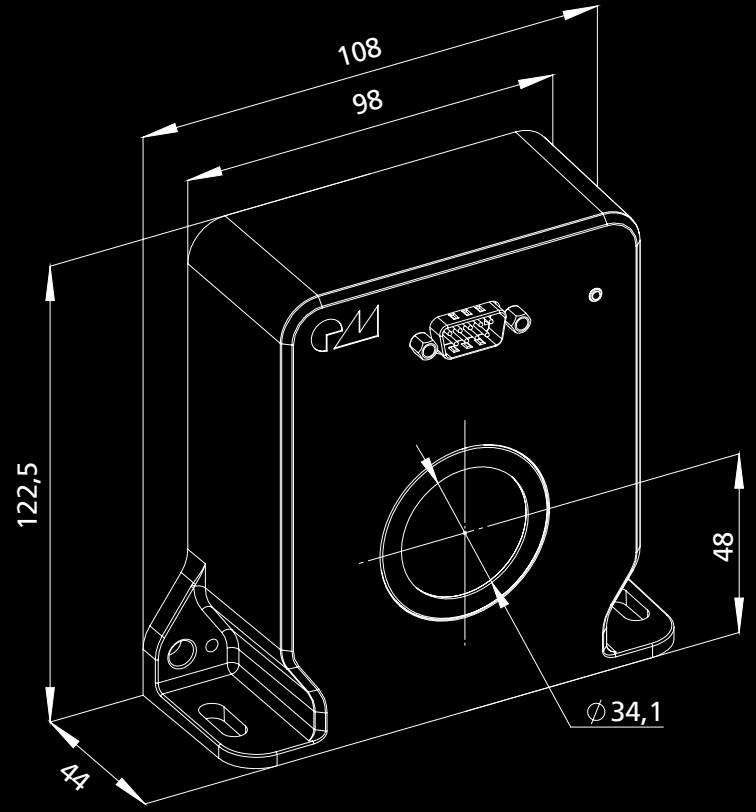
LAYOUT



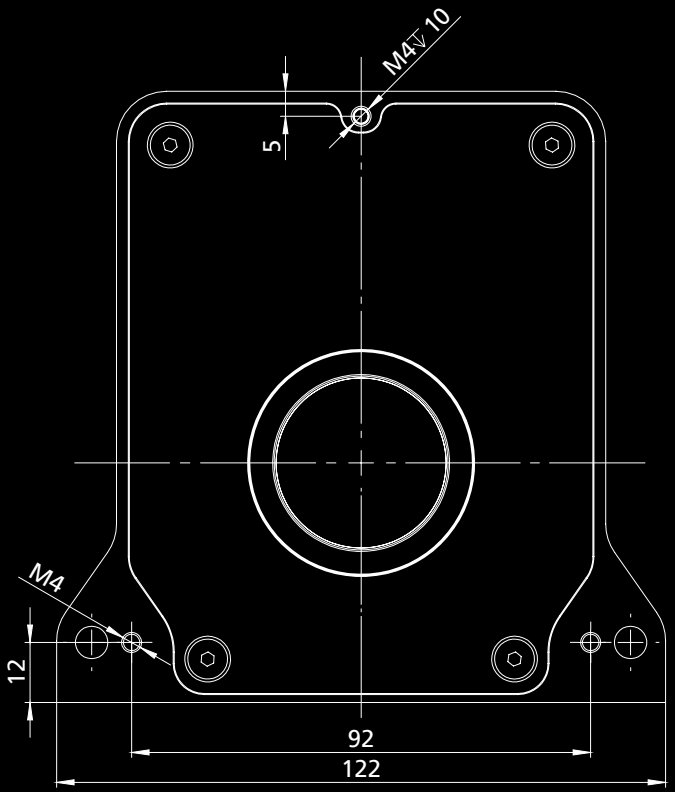
Pin 1:	Iout-/GND
Pin 2:	NC
Pin 3:	GND (Valid)
Pin 4:	GND (Supply)
Pin 5:	-15 V
Pin 6:	Iout+
Pin 7:	NC
Pin 8:	Valid
Pin 9:	+15 V

SIDE

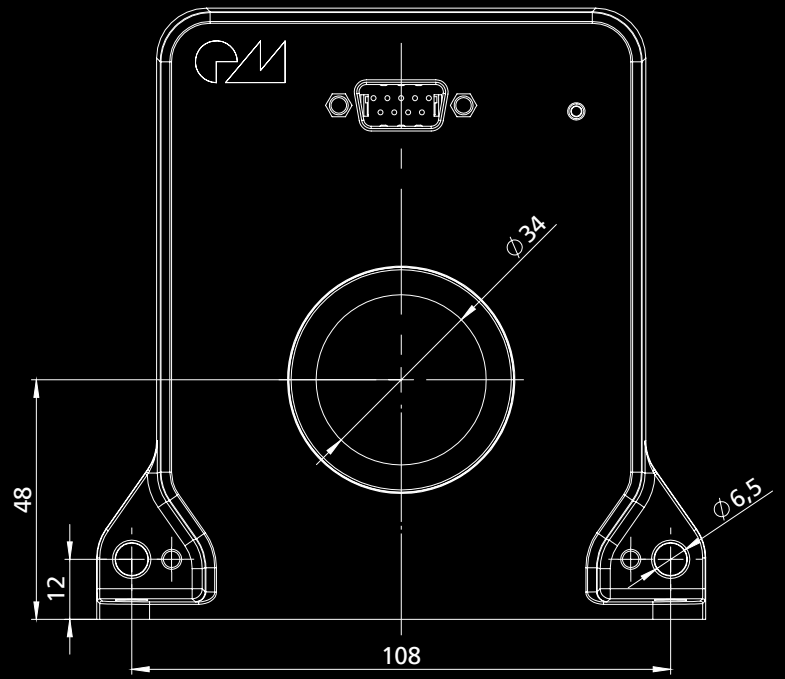




AC DC



BACK



FRONT

AC DC

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M A K E A C H A N G E

