Universal Technic

Current Probe P32.UEB5 1A/1V

The P32.UEB5 1A/1V current probe has been designed for use with multimeters, recorders, safety testers etc. for accurate non intrusive measurement of AC current. Using the latest transformer technology, the P32.UEB5 1A/1V is primarily intended for leakage current detection at industrial frequencies.

Electrical Characteristics

Current Range I_N..... : 1 A_{RMS}
Measuring Range..... : 10 mA to 5 A_{RMS}
Output Sensitivity ..... : 1 mV / A
Load Impedance ..... : ≥ 500 kOhm
Conductor Position Sensitivity..... : 0.5% @ 50Hz
Error due to adjacent conductor ..... : ≥ 6mA / A @ 50 Hz
Frequency Range ..... : 30 Hz to 1 kHz
Temperature Coefficient ..... : 0.01% / °C
Working Voltage (see Safety Standards section) ..... : 600 V AC_{RMS} or DC
Overload ..... : 200 A permanent, 1000A 5mn/15mn

Accuracy

Primary current	10mA	100mA	1A
Accuracy (of rdg)	3%	2%	1%

General Characteristics

Maximum Conductor Size..... : 82 mm diameter
Protection ..... : Transil 6V8
Output Connection..... : 4 mm safety socket
Operating Temperature Range ..... : -10 to +55 °C
Storage Temperature Range ..... : -40 to +70°C
Operating Humidity ..... : ≤ 85%
Weight..... : 1900 g

Reference conditions: Temperature : +18°C to 26 °C, humidity: 20 to 75% RH, sinusoidal current: 48 to 65Hz, distortion factor: < 1%, DC current: none, DC magnetic field: 40 A/m earth's magnetic field, alternating magnetic field: none, proximity of external conductor: none, primary conductor: centred in the aperture, load impedance: □1M□, <100pF for voltage output.

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Safety Standards

IEC61010-1: 2010
IEC61010-2-032: 2012
IEC61010-2-031: 2008

600 V_{RMS}, Category III, Pollution Degree 2

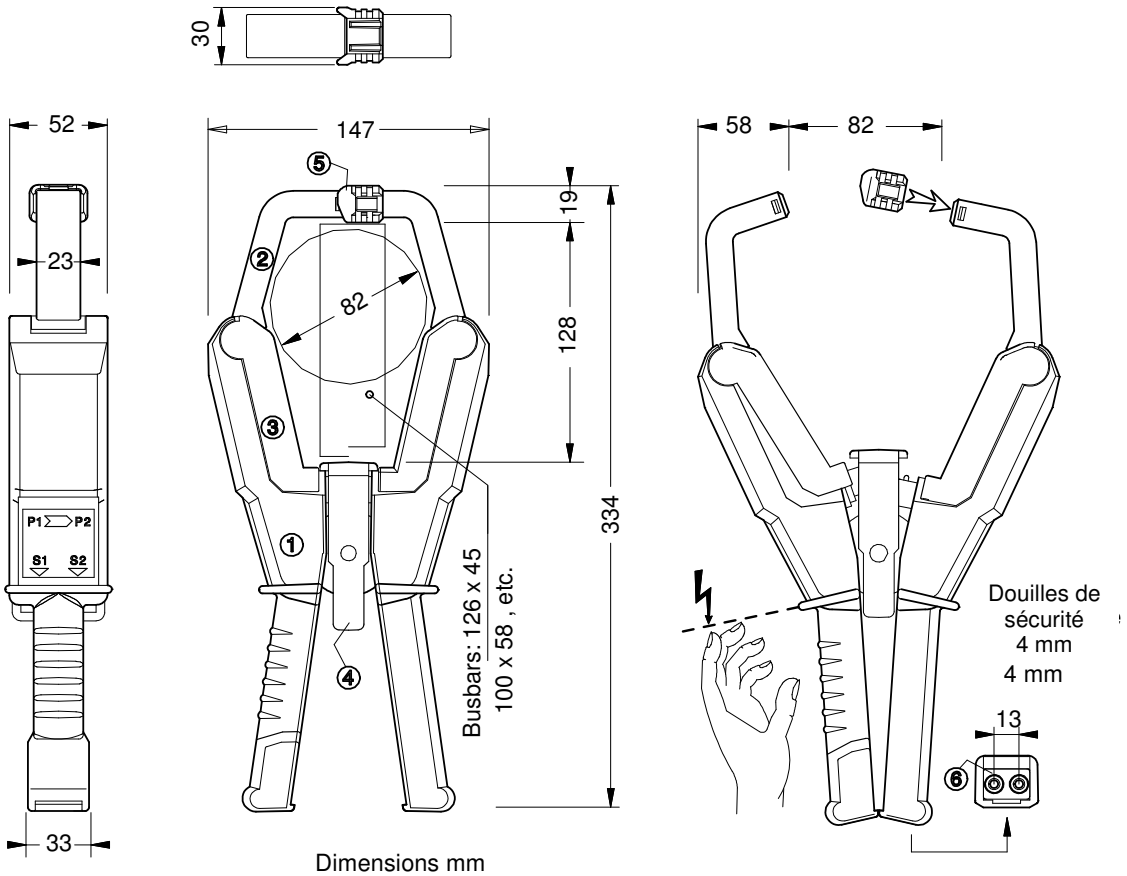
Use of the probe on **uninsulated conductors** is limited to 600 V AC_{RMS} or DC and frequencies below 1 kHz.

EMC Standards

EN 61326 :1998

Dimensions

Dimensions



Dimensions mm

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