

⇒ Highlights

PP Patent Protection

- Accuracy up to 0.2 % includes wire position influence
- Composite core for low TC
- Broad frequency range
- Accuracy specification includes wire position influence
- Symmetric flexible shielding ^{PP} for excellent suppression of strange electric fields
- Symmetric sensor coil ^{PP} for excellent suppression of strange magnetic fields
- Flexible sensor cable with Ø 6 mm diameter
- Safety wear indicator outer layer

⇒ Description

Precision Flexible AC Current Sensor SymmProFlex® FCS 3121 is based on Rogowski coil principle designed to measure alternating current.



⇒ Available Models

Model	Class	Sensor Cable
FCS 3121C	0.2	Ø 6 mm
FCS 3121D	0.5	Ø 6 mm
FCS 3121P	1.0	Ø 6 mm

⇒ Technical Specification

General Parameters	
Working Frequency (3dB)	> 100 kHz
Mutual inductance / Gain	95.5 nH / 30 µV/A @50Hz
Accuracy of mutual inductance *	0.2%, 0.5%, 1%
External magnetic field influence **	< 0.1%
Temperature Coefficient	< 15 ppm / K
Output Voltage Maximum	15 V peak
Peak di/dt	150 A/µs
Operating / Test Voltage	600 V / 3 kV
Safety	EN 61010-2-032 Cat II/300V
Sensor diameter	Ø 6 mm
Sensor length	0.5m (customized length optional)
Sensor resistance	2 x 620 Ω / 0.5 m
Load Resistance	≥ 1 MΩ
Signal cable	Ø 4mm shielded wire pair, length 1 m
Operating Temperature	-20 .. +60 °C
Storage Temperature	-20 .. +60 °C

* Accuracy specified as maximum allowed deviation:

- from the nominal value (FCS 3121P)
- from the calibration value (FCS 3121D, FCS 3121C)

** The sensor located at radius distance from the external current conductor