

SENSOR.KOSMOS.

Issue 34 | November 2025

SINOMAGS NEW CURRENT SENSORS:

*Tailor-made for
PV inverters
in the 400 kW class*

ELP7932

*Compact absolute sensor
for precise linear movements
in the smallest of spaces*

**'STRONG PARTNERS.
STRONG FUTURE.'**

*Working together for success:
The partnership with Endrich*

**THE NEW SENSOR
SOLUTIONS
AT A GLANCE**

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DigiKey

Produkte ▾ Hersteller ▾ Ressourcen ▾ Angebot anfordern

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STB-100LA/D

DigiKey-Teilnr.: S845 STB-100LA/D AD

Hersteller: Sensitec

Hersteller-Teilenummer: STB-100LA/D

Beschreibung: SENSOR CURRENT TMR 100A AC/DC

Kundenfeedback:

Detaillierte Beschreibung: Stromsensoren 100A 3 Kanal Magnetresistiv, gsm/hochohmiger Regelkreis, bidirektional Mittelwert

Datenblatt: [Datenblatt](#)

Produktigenschaften

STRONG TOGETHER IN TURBULENT TIMES

The world is changing rapidly. Technological progress, new market demands and geopolitical developments require one thing above all else from companies: adaptability. As in our private lives – just think of the shift from everyday office life to working from home during the pandemic – flexibility and openness to new ideas are crucial not only to keep up, but also to actively move forward. Only those who are willing to change can recognise the opportunities that every change brings.

This is precisely the principle we follow in our sales department. In order to continue providing our customers with the best possible service, we have specifically developed our sales structure. The team has been reorganised, responsibilities clarified and processes optimised – all with the aim of being even closer to the needs of our partners and customers. Because we are convinced that only those who truly understand the needs of their customers can offer real added value.

A special milestone in the new sales structure is the partnership with the experienced distributor Endrich Bauelemente GmbH. What began as a casual conversation about current sensors at a trade fair quickly proved to be a success story: the first series order has already been completed! But that's just the beginning, because at the same time we are delighted to be entering online distribution in the DigiKey Marketplace, which now gives us an international presence. This enables us to make our products even faster, more flexible and more easily accessible.



Glenn von Manteuffel
Head of Strategic Sales

Speaking of products, there are also new things to discover here: our position sensor for small linear movements is the ideal addition to our proven robotic encoder range. This product rounds off our portfolio for precise motion control and opens up new applications outside of automation and robotics.

In addition, we have expanded our portfolio in the field of current sensors specifically for PV inverters. Our new products offer maximum accuracy and reliability and are specially tailored to the requirements of modern photovoltaic systems – a strong signal in the direction of sustainability and future technology.

And because technical excellence can only be achieved with the right people, we welcome David Quirnheim Pais as our new Field Application Engineer (FAE) in the field of position sensors. He will support our customer projects even more efficiently and ensure quick responses.

We hope you enjoy reading it – and cordially invite you to meet us in person at the SPS in Nuremberg in November!

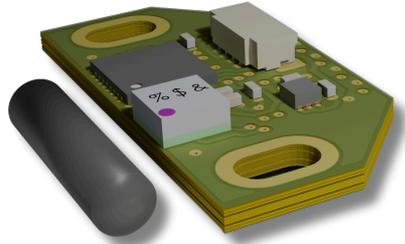
ELP7932

Compact absolute sensor for precise linear movements in the smallest of spaces

At a time when automation processes are becoming increasingly compact, precise and energy-efficient, Sensitec GmbH presents the ELP7932, a new generation of magnetoresistive absolute encoders – optimised for short linear travel distances while offering high accuracy and flexibility.

Absolute precision – regardless of the distance

The ELP7932 is based on Sensitec's own TA903 TMR angle sensor and, in combination with a dipole magnet, provides precise absolute position data along a linear axis. The key feature: the measuring distance is freely scalable – the distance measured depends solely on the length of the magnet used. This makes the system ideal for short, clearly defined linear movements, such as those found in handling systems, measuring slides or miniature drives.



Compact, robust and versatile

With its integrated signal processor, the sensor does not require an external evaluation unit. It is available with an optional bidirectional SSI interface and can be flexibly expanded with interfaces such as SPI, PWM or UART.

The supply voltage can be between 3 and 5 volts, allowing the sensor to be easily integrated into existing systems. Thanks to state-of-the-art signal processing, the ELP7932 achieves an accuracy of up to ± 50 micrometres – ideal for applications where even the smallest deviations are crucial. The repeat accuracy is also impressive, with values below ± 10 micrometres. With up to 13-bit resolution and a position update rate of up to 150 kHz, the system responds extremely quickly and reliably.



Big on performance, small in size

The sensor is optimised for short working distances of 1 to 3 millimetres and can withstand harsh environments with ESD resistance of up to 2 kV and a temperature range of -25°C to $+85^{\circ}\text{C}$. Thanks to its compact design, the module can be integrated into devices with limited installation space, saving valuable space – a decisive advantage in modern micro-systems and compact industrial systems.

Typical areas of application

The ELP7932 is ideal for short-stroke positioning systems, automated gripping mechanisms, testing devices, fine adjustment units, or medical equipment. It demonstrates its strengths wherever high precision is required in the smallest of spaces.



Conclusion

The ELP7932 redefines the measurement of short linear distances: compact, precise, absolute. With its flexible integration, high resolution and robust design, it is a future-proof component for modern automation and motion control solutions.

‘STRONG PARTNERS. STRONG FUTURE.’

Working together for success: the partnership with Endrich

Sometimes a success story begins quite inconspicuously – with a brief conversation at a trade fair. This was the case with Sensitec and Endrich: in November 2022, our colleague Matthias Brusius (Field Application Engineer Current Sensors) and Dr Thomas Wolf met for the first time at Electronica in Munich. They immediately hit it off.

Just a few months later, in April 2023, an initial online meeting took place, at which both companies presented their strengths. The decisive moment then came in October: in talks at management level, Dr Endrich and Dr Wang gave the official ‘go-ahead’ for a joint future.

What followed was a series of intensive activities: training courses on current sensors, an article in Endrich News, tours through Austria and Hungary, and a special eye-catcher at Electronica – an e-scooter equipped with Sensitec sensor technology. Step by step, not only did trust grow, but so did cooperation.

2025 marks the transition to a new phase: with training on position sensors, the Endrich sales conference with around 25 participants at Sensitec's wafer production facility in Mainz, and the tour of Switzerland, the foundations have been laid. And in April, the first series order followed – a milestone for both sides.



Visit by Dr Endrich and her sales team to Sensitec in Mainz



E-scooter at Electronica, Munich 2024

Endrich and Sensitec made their next big appearance in May at PCIM, before celebrating twice in June: the retirement of Wolfgang Deuschle (Product Manager Sensors) and the successful start of series production for our FREE-pitch sensor AA747AHA-AH for motor commutation.

Glenn von Manteuffel, Strategic Sales DACH Region and responsible for Endrich: *With Wolfgang, we are saying goodbye to a colleague who has pushed our collaboration from the very beginning and who took us under his wing and accompanied us as newcomers to distribution. So it's no wonder that after a good 18 months together, we are now celebrating our first series order! We thank him from the bottom of our hearts for his tireless efforts and wish him all the best!*



Glenn von Manteuffel (Sensitec) with Michael Plaumann (FAE Sensoren-Endrich) at PCIM 2025



Endrich exhibition stand at PCIM, Nuremberg 2025



At Mr Deuschle's farewell party and the celebration for the first series order, from left: Michael Plaumann (Endrich), Tatjana Messner (Endrich), Glenn von Manteuffel (Sensitec), Wolfgang Deuschle (Endrich)

Looking ahead: The distribution agreement is nearing completion. Further projects in the areas of current and position sensors are awaiting series approval. The partnership is also on course for growth internationally:

Joint customer campaigns in Germany, France and Italy are already planned.

A trade fair contact has thus quickly grown into a strong collaboration – and the joint success story has only just begun.



Sinomag's new current sensors: Tailor-made for PV inverters in the 400 kW class

In view of increasing competition from cheaper, lower-performance PV systems from Asia, inverter manufacturers in Europe and the USA are increasingly focusing on powerful, centralised systems with maximum efficiency. Sinomags supports this change with tailor-made sensor solutions that offer maximum measurement accuracy, improved safety and flexible integration options across multiple measuring points. Future PV systems will also feature higher DC voltages – up to 2000 V – and dense module interconnections. With up to 30–40 modules per string, the demands on current sensors are increasing significantly: they must not only cope with higher currents and insulation voltages, but also be space-saving and highly accurate. Sinomag meets these challenges with three specially developed sensor series:

SIDE NOTE

Technologically pioneering, strategically well thought-out: Chinese sensor specialist Sinomags is expanding its portfolio with three state-of-the-art current sensors specially developed for central photovoltaic inverters in the 400 kW class. The company is thus responding to global changes in the PV industry - towards greater efficiency, higher voltage and increasing system complexity.

THE NEW SENSOR SOLUTIONS

at a glance

1

STB-350LA/M2 – Robustness under extreme conditions

This sensor was specially designed for 400 kW inverters and can easily withstand surge currents of up to 700 A. The combination of excellent overload resistance and precise measurement makes it the ideal solution for high-load, central PV systems.



2

CTS series – Two functions, one housing

The CTS series combines current measurement and arc detection in a single, compact module. This 'two-in-one' solution simplifies system architecture, increases safety and enables early detection of arc faults – an important safeguard against fire hazards and downtime.



3

SFG-P series – Precise leakage current detection for high-voltage systems

With high measurement accuracy, low temperature drift and fast response time, the SFG-P series is ideal for demanding high-voltage inverters. Thanks to its high noise immunity and AC insulation voltage resistance, it ensures reliable operation even in complex environments.



Future-proof technology for sustainable energy

With further innovations such as the BS-T 2000A – a sensor with extended conductor clearance for high currents – Sinomags is positioning itself as a strong partner for manufacturers of PV inverters.

The new sensors not only offer modern technologies, but also practical solutions for the energy world of tomorrow.

Further information is available at: www.sinomags.com

Hui Wang - Product Manager, Current Sensors



FLUXGATE OR TMR TECHNOLOGY



Setting new standards in current measurement: The STB-CAS series from Sensitec

Our STB-CAS current sensors cover measuring ranges from 6 A to 75 A RMS – for direct current, alternating current and pulsating currents. With galvanic isolation and state-of-the-art CL fluxgate or TMR (tunnel magnetoresistive) technology, they offer maximum precision in a compact housing for PCB mounting.

With the STB-CAS series, we offer our customers accuracy, safety and reliability – for the industrial applications of tomorrow.

KEY FEATURES

- Closed loop principle
- Supply voltage +5V
- Good accuracy across temperature range
- Measuring range 3x nominal current
- Bandwidth from DC to 400 kHz
- Response time <math><0.3 \mu\text{s}</math>
- Pin compatibility and competitive prices
- UL 94-VO certified housing
- Also available with reference output – for even better accuracy



TYPICAL APPLICATIONS

- Motor drives and servo controls
- Battery-powered systems and UPS systems
- Solar inverters
- Welding equipment and power supplies
- SMPS and DC motor drives

Order now from
DigiKey!
www.digikey.com

STAFF PORTRAIT DAVID QUIRNHEIM PAIS

After studying integrated product development at the South Westphalia University of Applied Sciences, David returned to his home region of Lahn-Dill-Kreis – to Sensitec GmbH. He worked here for five years as a project engineer in system development, designing technical solutions in the field of position sensor technology. He was particularly attracted by the direct interaction with customers: *‘For me, technology only comes to life through concrete applications.’*

New role, new perspective

David has been a field application engineer for encoders and magnetics since August.

In this interface role, he combines technical expertise with customer requirements and ensures that solutions are implemented in a practical manner. *‘I am motivated when our technology makes a real difference.’*

A working day between the laboratory and customer contact

What does the everyday life of a field application engineer look like?

‘It’s a mixture of both – in-depth technical understanding and close collaboration with people. Sometimes it’s about preparing measurements in the laboratory, sometimes it’s about visiting customers together with the sales team and presenting solutions.’

It is this versatility that inspires him. He finds it particularly exciting that every customer has different priorities – from high-precision automation technology to robust applications in mechanical engineering. *‘You never stop learning, and that’s what makes my job so exciting.’*



Proud of shared successes

Looking back, he fondly remembers projects he has worked on as a project engineer. *‘When you end up with a product that is tailored precisely to the customer’s requirements – those are the moments you can be proud of.’*

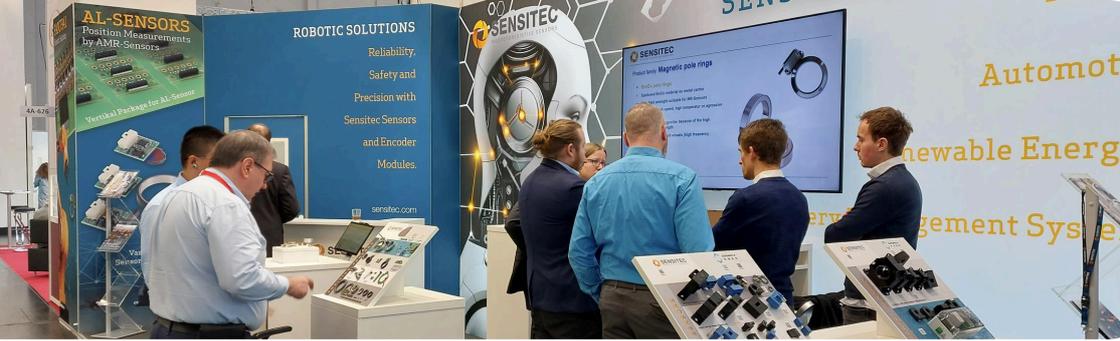
This feeling of having created something tangible also drives him in his new role. Now it’s no longer just about developing solutions, but also about placing them in direct exchange and developing them further.

The person behind the technology

Despite his enthusiasm for technology, David believes it is important to have a balance in life. In his free time, he spends a lot of time cycling and going to concerts. *‘Balance is important – it allows you to tackle the next challenges with a clear head.’*

When asked what drives him, he answers without hesitation: *‘The combination of technical depth and human connection. It motivates me when I see that our solutions make a real difference.’*

Claudia Ulbricht, Marketing & PR



EXPERIENCE SENSITEC LIVE

Our trade fair dates
2025/2026

We look forward to seeing you there!

Experience pioneering sensor technology, receive personalised advice and discover how Sensitec can make your applications more efficient, precise and intelligent.

You can also find all the information about our trade fair appearances at: www.sensitec.com

For further information or appointments, please contact:
+49 (0)6441 5291 0 / sensitec@sensitec.com



sps

smart production solutions

25–27 November 2025 / 24–26 November 2026

SPS – Smart Production Solutions, Nuremberg

The industry meeting place for smart and digital automation.

Sensitec presents modern magnetoresistive sensor solutions for demanding industrial applications.



18th and 19th March 2026

W3+ Fair, Wetzlar

The innovative networking fair for the optics, photonics, electronics, mechanics and high-tech innovation industries.

pcim

EUROPE

9–11 June 2026

PCIM Europe, Nuremberg

The leading trade fair for power electronics, drive technology, renewable energies and energy management – and the ideal platform to learn about Sensitec current sensor and encoder technology.



10–13 November 2026

Electronica, Munich

The world's leading trade fair and conference for electronic components, systems and applications.

OUR SALES TEAM

Behind every successful solution is a strong team. Our sales department is your point of contact for customised sensor solutions, technical advice and partnership-based cooperation – personal, competent and reliable.



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components of life

Endrich Bauelemente Vertriebs GmbH distributes the entire product range of Sensitec current sensors presented here. For further information, please visit www.endrich.com.

Not sure who to contact?
Get in touch with us at: info@sensitec.com



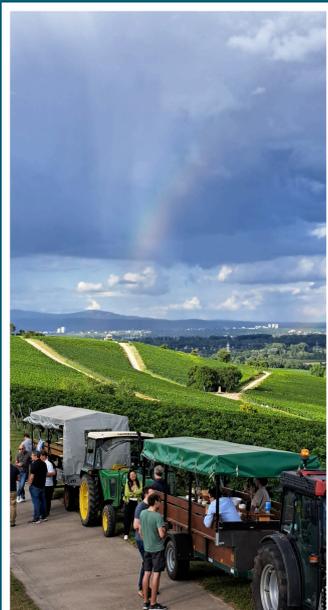
SUMMER CLOSING PARTY

Together with all our colleagues, we enjoyed a delicious lunch at Sensibar. The pleasant atmosphere provided an opportunity for stimulating conversations and socialising. It was a successful end to the summer. Once again, the strong collegial spirit at Sensitec was evident. A big thank you goes to the organisers of the party and to the management, who made the summer party possible financially. Now we are well fortified and ready to start the autumn together.



A LEISURELY DRIVE THROUGH THE VINEYARDS

While the summer closing party took place at the Sensibar, colleagues in Mainz enjoyed a special activity: a leisurely covered wagon ride through the picturesque vineyards of the region. With magnificent views and a relaxed atmosphere, this time spent together away from the daily grind of work became an unforgettable experience.



Mainz, 5 September 2025



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