



Aeva Unveils Eve 1V High-Precision, Non-Contact Motion Sensor for Next-Generation Manufacturing Automation

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New Sensor Delivers Slip-Free Accuracy, Maintenance and Wear-Free Measurements, and Integrates Seamlessly into Any Production Line

MOUNTAIN VIEW, Calif.--(BUSINESS WIRE)--Sep. 10, 2025-- [Aeva](#)[®] (Nasdaq: AEVA), a leader in next-generation sensing and perception systems, today announced the introduction of Aeva Eve™ 1V, a high-precision, non-contact motion sensor with the potential to redefine industrial speed, length, and position measurement wherever traditional encoders and tactile sensors are used in manufacturing today. Built on Aeva's breakthrough Frequency Modulated Continuous Wave (FMCW) sensing technology, Eve 1V delivers unmatched motion accuracy, repeatability, and reliability without ever touching the material.

This press release features multimedia. View the full release here: <https://www.businesswire.com/news/home/20250910516224/en/>



Aeva introduces the Aeva Eve 1V motion sensor for next-generation manufacturing automation.

Eve 1V is designed for a broad range of industrial and manufacturing environments including packaging and printing, construction materials, and extrusion lines. It excels in

measuring both continuous materials—like webs, sheets, and rolls—and discrete goods, providing precise data for cutting, quality control, and material handling. By replacing tactile measuring wheels and complex high-cost laser velocimeters, Eve 1V offers manufacturers a more accessible, reliable, and scalable speed measurement solution.

“With Eve 1V, we’re bringing Aeva’s precision sensing expertise to a whole new class of industrial applications that measure an object’s motion in the manufacturing setting,” said Mina Rezk, Co-founder and CTO at Aeva. “By combining non-contact FMCW laser measurement with our proven performance in velocity and position sensing, Eve 1V empowers manufacturers to measure faster, more accurately, and without maintenance down-time or wear-and-tear limitations of traditional systems—ultimately enabling greater productivity and protecting the integrity of every material.”

Eve 1V employs Aeva’s advanced FMCW laser technology to precisely measure the lateral velocity, including the length, movement direction, and position of moving materials. Even in challenging conditions like start-stop operations or with short material segments, Eve 1V captures motion data with exceptional submillimeter per second accuracy. The sensor is designed to minimize any disruption or maintenance downtime to manufacturing by featuring a non-contact measurement method that reduces system wear and tear and allows for rapid “install-and-go” integration into existing production lines. Eve 1V’s compact, robust design incorporates an eye-safe Class 1 laser.

Eve 1V Key Advantages

- **Material-Friendly Performance** – Ideal for a variety of materials including delicate, soft, smooth, or textured surfaces where traditional tactile sensors risk damage or measurement errors.
- **Slip-Free Accuracy** – Eliminates slippage errors common with wheel encoders, ensuring consistent measurement quality that boosts throughput and reduces waste.
- **Maintenance-Free and Without Wear** – Non-contact design prevents mechanical wear-and-tear and avoids factory down-time for maintenance.
- **Eye-Safe** – Class 1 laser technology removes the need for special safety training or costly protective measures.
- **Easy Integration** – One compact housing – with low power consumption, an industrial-grade connection interface, and encoder-compatible outputs – makes Eve 1V simple to retrofit into existing manufacturing environment setups.

Availability

Samples of Eve 1V are available now with production expected to start early next year. To learn more about Eve 1V and Aeva’s line of Eve 1 high-precision sensors for advanced manufacturing visit: www.aeva.com/eve-1.

About Aeva Technologies, Inc. (Nasdaq: AEVA)

Aeva’s mission is to bring the next wave of perception to a broad range of applications from automated driving, manufacturing automation and smart infrastructure, to robotics and consumer devices. Aeva is accelerating autonomy with its groundbreaking perception platform that integrates lidar-on-chip technology, system-on-chip processing, and perception algorithms onto silicon leveraging silicon photonics. Aeva 4D LiDAR sensors uniquely detect velocity and position simultaneously, allowing automated

devices like vehicles and robots to make more intelligent and safe decisions. For more information, visit www.aeva.com, or connect with us on [X](#) or [LinkedIn](#).

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Forward looking statements

This press release contains certain forward-looking statements within the meaning of the federal securities laws. Forward-looking statements generally are identified by the words “believe,” “project,” “expect,” “anticipate,” “estimate,” “intend,” “strategy,” “future,” “opportunity,” “plan,” “may,” “should,” “will,” “would,” “will be,” “will continue,” “will likely result,” and similar expressions. These forward-looking statements include, but are not limited to expectations about our product features and performance. Forward-looking statements are predictions, projections and other statements about future events that are based on current expectations and assumptions and, as a result, are subject to risks and uncertainties. Many factors could cause actual future events to differ materially from the forward-looking statements in this press release, including, but not limited to: (i) the fact that Aeva is an early stage company with a history of operating losses and may never achieve profitability, (ii) Aeva’s limited operating history, (iii) the ability to implement business plans, forecasts, and other expectations and to identify and realize additional opportunities, (iv) the ability for Aeva to have its products selected for inclusion in OEM products (v) the early stages of the target markets, (vi) manufacturing issues, (vii) customer acceptance of this technology, and (viii) other material risks and other important factors that could affect our financial results. Please refer to our filings with the SEC, including our most recent Form 10-Q and Form 10-K. These filings identify and address other important risks and uncertainties that could cause actual events and results to differ materially from those contained in the forward-looking statements. Forward-looking statements speak only as of the date they are made. Readers are cautioned not to put undue reliance on forward-looking statements, and Aeva assumes no obligation and does not intend to update or revise these forward-looking statements, whether as a result of new information, future events, or otherwise. Aeva does not give any assurance that it will achieve its expectations.

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