OMRON

COMPONENT INSIDER

MARCH 2024 EDITION

Hello [First Name] !

Thanks for reading the March 2024 edition of OMRON Electronic Component's product newsletter, Component Insider.

If you have any feedback on this new resource, please email us!

Sincerely,
The Team @ OMRON Electronic Components

Featured **Products**



Power Relays

(IEC/EN 60079-15 compliant products)
G5NB, G5Q, G2RL, and G5PZ

Omron's platform relay families, G5NB, G5Q, and G2RL have been expanded to add explosion-proof ratings (IEC/EN60079-15) to varying models across the product families. The explosion-proof certification provides a guarantee that the relays will not cause ignition of flammable gasses when switching in such environments. Omron is heavily focusing on the expansion of like-certified relays to support the transition to low Global Warming Potential, "Green" Refrigerants. These refrigerants include semi-flammable variants that must be designed with components that prevent against their ignition. Omron's platform relays can support explosion-proof switching from 3A to 16A for both IformA and IformC requirements.

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G6RN-E

The G6RN-E relays provide a miniature PCB terminal relay option for designs requiring 10A (250VAC) switching current capability. G6RN-E is a high-capacity, explosion-proof addition to the G6RN family, providing conformation to **IEC/EN60079-15**. These new models are ideal candidates for switching in flammable gas environments. They offer high dielectric strength and electrical endurance under their rated loads.

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D2EW

The new D2EW switches are part of the smallest class in the industry along with the D2GW series (8.3mm×7.0mm×5.3mm) With an IP67 rating, (excluding terminals on terminal models) this switch is ideal for places subject to water spray or excessive dust. Additionally, the D2EW plunger shape supports multi-angle operation without using a lever, increasing flexibility in customer unit designs.

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EE-SX4330

The EE-SX4330 is a transmissive photomicrosensor manufactured by OMRON. It features an ultra-compact slot design with a width of 3mm, making it suitable for a variety of applications. The sensor is a surface-mount device (SMD) type with a photo IC output, allowing for easy integration into electronic systems. It is designed to be compact and versatile, providing reliable detection and contributing to the overall efficiency of the device it is used in.

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OMRON **News**



How to Choose and Use Optical Sensors for Object Detection

Stable object detection is the key to success in the fast-paced world of manufacturing, automation, and robotics. That's where optical sensors come into play. These little powerhouses offer a reliable and efficient solution for object detection, but choosing the right sensor and using it correctly is the secret sauce to achieving rock-solid detection. When it comes to choosing an optical sensor, it's essential to consider the unique factors of your application. Think about the shape, size, color, and surface conditions of the objects you need to detect. Look for key performance parameters such as sensing range, response time, accuracy, and reliability. You want a sensor with a sensing range that covers your desired detection distance and a response time that matches the speed of your operations. Accuracy and reliability are non-negotiables for consistent object detection. Conduct thorough testing to ensure it reliably detects objects under various conditions, it requires ongoing monitoring and maintenance. Keep an eye on your sensor's performance and make any necessary adjustments or replacements. With the right optical sensor, you'll achieve object detection that will take your applications to new heights.

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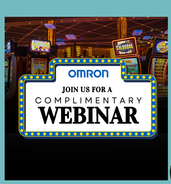
Fresh On The Board - February Edition

OMRON's unwavering mission is to revolutionize society through its innovative business endeavors. As a testament to their remarkable contributions, two exceptional OMRON products have been honored with the prestigious Grand Award of 'CHO' MONODZUKURI Innovative Parts and Components Awards. Learn more about the products below.

Learn more

Upcoming **OMRON Events**

Enhancing Player Immersion
Through Casino Gaming Solutions



Join OMRON's upcoming webinar in March to explore their Bash Button, Lighting, and Human Image Sensing solution for the casino gaming market. Discover how to safeguard against common issues in slot machines and differentiate your cabinet on the casino floor. Topics include current and past trends in the casino gaming market, protecting slot machine button decks, attracting players with unique lighting solutions, enhancing player immersion with human image sensing software, and gaining insights into player demographics, habits, and engagement. Don't miss out on this opportunity to elevate your casino gaming experience.

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Interested in other events OMRON is a part of or hosting? Check out our events page so you never miss a thing!

Events Page

OMRON **Membership Program**



For a limited time, we will be offering our membership program free to anyone who signs up for it.

- Free download of 2D/3D CAD and ECAD files
- Updated information on New Products
- Access to OMRON's exclusive newsletter
- Downloadable RoHS Certifications
- Reference History
- And more to come...

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