# Panel downsizing solutions

- Reduce panel dimensions by up to 20%
- Slim design with a minimum width of 6.2 mm
- On-panel components with a maximum depth of 70 mm

# Downsize your control panel

## Benefits of downsizing

For equipment manufacturers

- Smaller size & lighter panel components result in reduced transportation costs
- Minimising the control panels by choosing minimal, yet effective panel components
- Easy equipment customisation

- Supporting the equipment manufacturers with downsized facilities, equipment and panels
- Reducing costs linked to the installation, set - up and wiring panels

For control panel manufacturers

- Increasing added value by providing more compact control panels

Users

- Reducing the size of produc-tion lines to support mul-tipurpose and multi-speed production equipment.
- Downsizing of the panel con-tributes to greater flexi-bility when re-arranging production lines.

## Value provided by OMRON

Reduce panel dimensions by up to 20%

20%*

We provide a wide range of panel components in a compact format helping to reduce the total size of the panel by up to 20%

Slim design with a minimum width of 6.2 mm

6.2 mm

Using slim products creates space inside the control panel. This provides greater flexibility to allow design changes and component additions.

On-panel components with a maximum depth of 70 mm

70 mm

Our short-bodied on-panel components use less space inside the control panel, enabling them to be downsized

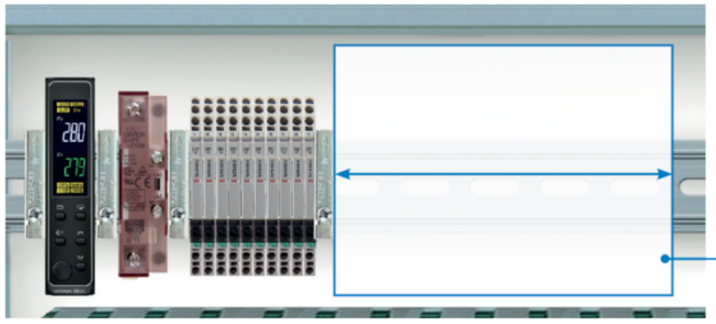
* Comparison with an actual control panel configuration using our conventional products.

# Simplify your control panel

**Slim and short bodied panel components come with the following specifications:**

1. Width - from 6.2 mm to 22.5 mm (in-panel components)
2. Depth - bodies of 70 mm or less (on-panel components)

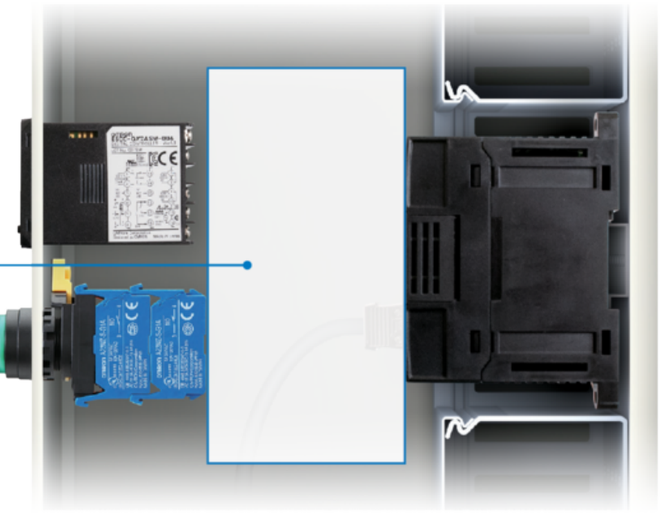
Inside a control panel from the front




When using the following previous models: one E5CN-U Temperature Controller + P2CF-11, One G3PA 210B-VD Solid State Relay, and ten G2R-1SNDI(S) Relays + P2RF-08

**Panel components come with the following benefits:**

1. The possibility to use thinner/ smaller control panels
2. The ability to increase the available space
3. Reduced costs linked to installation and transportation




Inside a control panel from the side

Slim I/O Relay G2RV



Solid State Relay G3RV



NEW

Micro contactor J7KNU

Safety Relay Unit G9SE

Digital Temperature Controller E5DC

Solid-State Timer H3DK

Measuring & Monitoring Relay K8AK

Solid State Relay G3PE

Wide line-up including K8DS Measuring & Monitoring Relay and H3DS Solid-state Timer

On panel

NEW

Pushbutton Switch A22N

Digital Timer/ Counter H5CX/H7CX

Digital Temperature Controller E5CC

In panel

Programmable Controller CP1E

Digital Temperature Controller E5DC

Switch Mode Power Supply S8VK-G

NEW

Uninterruptible Power Supply (UPS) S8BA

Wide line-up including H3DK Solid-state Timer and G3PE Solid State Relay (single-phase)

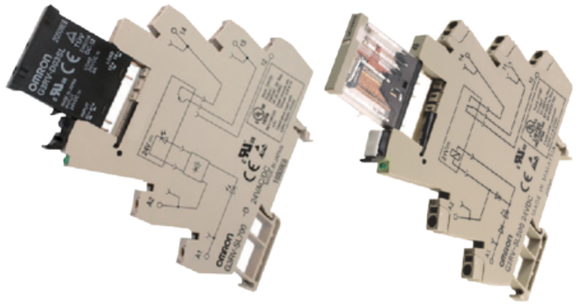
# Downsizing product portfolio

## Industrial slim relays

Downsizing

G2RV relays

Space-saving with 6.2 mm width. The slim width allows modules to be downsized and the number of I/O lines to be increased



Thinner by 70% compared with our previous relay with strong mechanical pins (G2R-1S)

## Safety relay units

Downsizing

G9SE series

Slim design (17.5 mm and 22.5 mm) saves mounting space


Thinner by 50% compared with our previous product (G9SA)

## Measuring & Monitoring Relays

Downsizing

K8AK/DS series

Common DIN-rail mounting

Compact footprint for narrow panel spaces


Slim body; 22.5 mm (K8AK) and 17.5 mm (K8DS)

## Uninterruptible Power Supplies (UPS)

Downsizing

S8BA Series

Lithium-ion batteries are used to reduce size and weight, and increase product life.

* For 5 A /120 W


Smallest and lightest in its class* 800 g

*1. According to OMRON investigation, April 2015.

# Engineering tools for the control panel

Today computers and powerful CAD/CAE software are now an indispensable tool for developing control panels, , as they make the job of the designer much easier. But even the best program can be limited by the database that powers it. Unfortunately nowadays the typical approach is to supply a multitude of manuals describing the dimensions and properties of a product, but with the introduction of EPLAN and Zuken eCAD data for our panel components and devices things are starting to change.

Developers can download a digital data record from our portal that contains all the essential data about a product in electronic form and can be used to seamlessly integrate the drawings (parts data), documents etc. contained within the data record into the CAD/CAE program. This saves time, avoids errors and reduces the time-to-market. Besides EPLAN and Zuken parts data, 2D & 3D CAD files can be downloaded via our CAD library (http://industrial.omron.eu/en/products/cad-library).

For more information on our partnered  programs, go to the links at the bottom of the page:

**Zuken Inc.**

industrial.omron.eu/zuken

**EPLAN**

industrial.omron.eu/eplan

Utilising component libraries will reduce work from design to manufacturing as well as for library registration, and also improve quality

Previously…

(Design) (Manufacturing)

Library registration | Drawing connection diagrams and wiring diagrams | Making cable tables and BOM | Making manufacturing instruction diagrams | Connections and assembly

With the provided libraries

Reduce work significantly

## Reduce registration work

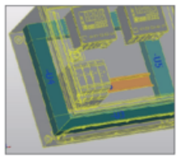
**Utilise component libraries**

Main specifications are registered and only your customisation is required
+
Reduce transcription errors

## Reduce redesign work and reduce specification checking work every time

Terminal arrangements
Related accessories
and other information

Efficient cable routing between connection points to reduce wiring work



Related accessories — Select all the required components smoothly

Datasheets — Easy to check specifications


OMRON

Listed in Forbes Top 2000 largest companies of the globe
Omron Corporation NASDAQ: OMRNY
Top ranking in Dow Jones Sustainability Index
Thomson Reuters Top 100 Global innovators

2013 THOMSON REUTERS TOP 100 GLOBAL INNOVATORS

Dow Jones Sustainability Indexes Member 2011/12

NASDAQ

# Omron at a glance

Listed in Top 2000 largest companies of the globe
Omron Corporation NASDAQ: OMRNY
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Thomson Reuters Top 100 Global Innovators

## 200,000 products ranging input, logic and output

Sensing, Control Systems, Visualization, Drives, Robots, Safety, Quality Control & Inspection, Control and Switching Components

## 7%

Investment in Research & Development

## Innovation track record of 80 years

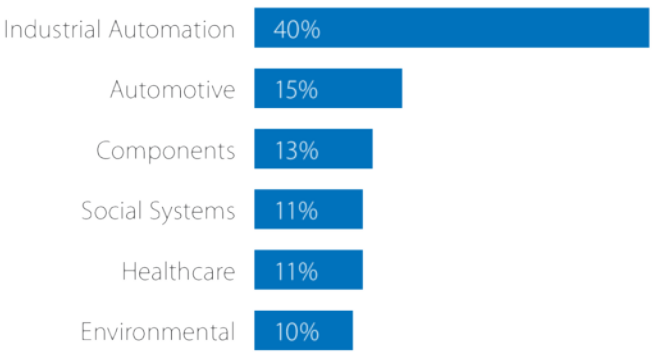
Top 150 global patent assignee
1,200 employees dedicated to R&D
11,000 + issued and pending patents

**37,000**
Employees worldwide

**210**
Locations worldwide

**22**
Countries in EMEA

## Working for the benefit of society




## Close to your needs

Technical training & seminars, technical support, Automation Technology Centers, online community (MyOmron), online catalogues and technical documentation, customer service & sales support, inter-operability labs (Tsunagi), safety services, repairs.

## 361° The Perfect Match

| | |
|---|---|
| LITE | Cost effective for standard industrial environment |
| PRO | Extra performance and and extended product mix |
| PRO$^{plus}$ | For advanced and unique applications |

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+44 (0) 1908 258 258

industrial.omron.co.uk

linkedin.com/company/omron


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industrial.omron.at

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industrial.omron.cz

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industrial.omron.dk

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industrial.omron.fr

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industrial.omron.de

**Hungary**
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industrial.omron.hu

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industrial.omron.it

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industrial.omron.nl

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industrial.omron.no

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Tel: +48 22 458 66 66
industrial.omron.pl

**Portugal**
Tel: +351 21 942 94 00
industrial.omron.pt

**Russia**
Tel: +7 495 648 94 50
industrial.omron.ru

**South Africa**
Tel: +27 (0)11 579 2600
industrial.omron.co.za

**Spain**
Tel: +34 902 100 221
industrial.omron.es

**Sweden**
Tel: +46 (0) 8 632 35 00
industrial.omron.se

**Switzerland**
Tel: +41 (0) 41 748 13 13
industrial.omron.ch

**Turkey**
Tel: +90 212 467 30 00
industrial.omron.com.tr

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