

Solutions to Downsize Control Panels

Value ^{plus} +
down-sizing



Our compact and slim in-panel components will

Customers' challenges for downsizing

For equipment manufacturers:
Persons in charge of
control panel designs

Reducing costs

We need to downsize equipment and control panels to reduce transportation costs.

Meeting user requirements for downsizing

To meet strong user demands to downsize equipment, we need to minimize control panels to be built into equipment.

Responding to needs for equipment customization

We need to maximize the space available inside control panels to meet user requirements for improvements after delivering the equipment.

Meeting the downsizing requirements of equipment manufacturers

As much as possible, we need to meet requirements for downsizing control panels associated with downsizing of facilities and equipment.

Reducing costs

We need to reduce the cost of the whole control panel, including reducing costs for an enclosure due to downsizing and reducing wiring.

Increasing added value

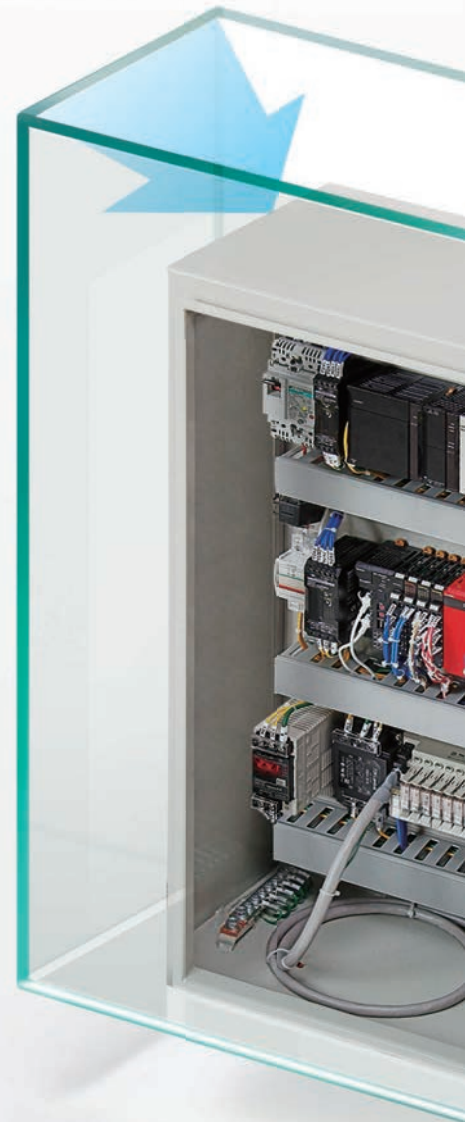
We want to actively use compact control panels as a selling point to meet globally expanding needs.

For control panel manufacturers:
Persons in charge of designs

Users

We need to reduce the size of production lines to respond to multiproduct variable quantity production.

We need to downsize facilities and equipment to facilitate increasing set-up changes associated with shorter product lives.



let you downsize control panels!

plus

Value +

Value provided by OMRON

Downsize the whole control panel

Reduce the volume by **20**%*

We will provide components with advanced downsizing and you can use simulations of component combinations and layouts with electrical control CAD to reduce the total cost.

* Comparison with an actual control panel configuration using our conventional products. According to OMRON investigation, April 2015.



Create surplus space in control panels

Slim design with a minimum width of **6.2** mm

Using slim products provides surplus space inside control panels. This provides more flexibility in design changes and component additions.



Reduce wasted space to create thinner control panels

Short body with a maximum panel depth of **70** mm

OMRON's short-bodied components reduce wasted space inside control panels for equipment requiring downsizing. They will contribute to downsizing the entire equipment.

Impressive slim and short-bodied specifications save space

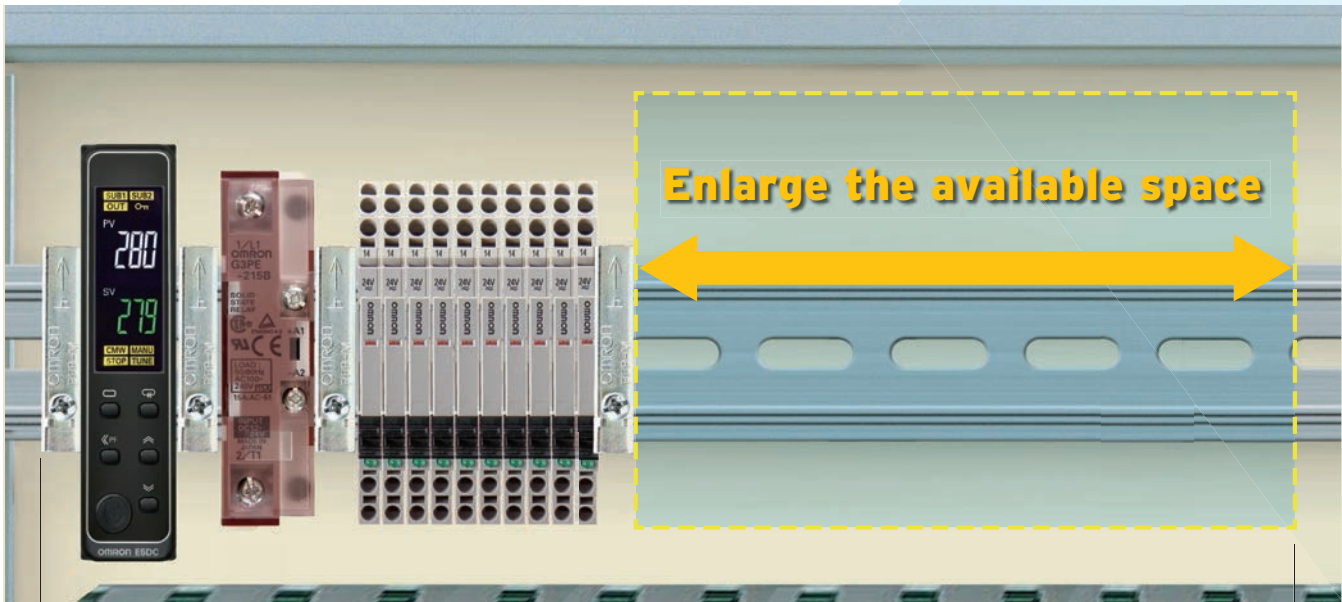
Slim

Combinations of components with a minimum width of 6.2 mm to 22.5 mm increase surplus space.

Capable of having components added for specification changes and facility modifications.

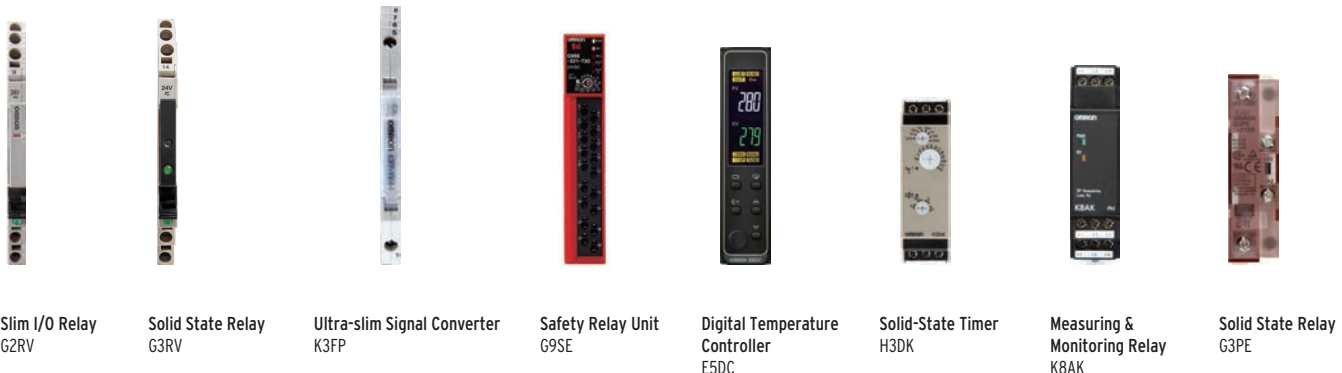


Inside a control panel from the front (for illustration only)



247 mm

When using the following previous models: one E5CN-U Temperature Controller + P2CF-11, one G3PA 210B-VD Solid State Relay, and ten G2R-1SND(S) 24VDC Relays + P2RF-08.



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

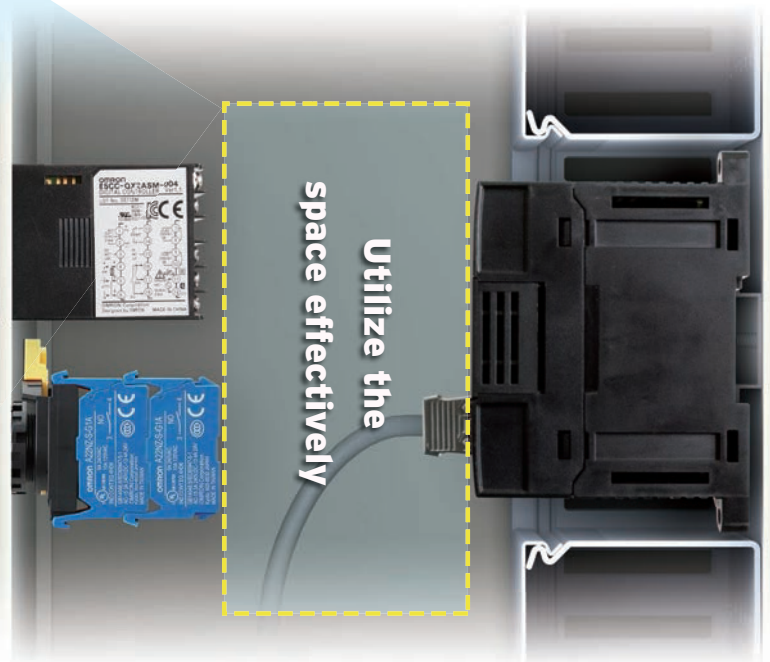
to enable flexible specification changes and cost reductions

Short body

Get thinner control panels with combinations of components whose bodies are **70 mm** or less on panel and **100 mm** or less in panel.

You can reduce the space required to install facilities, and the costs for components and transportation.

Inside a control panel from the side (for illustration only)



Reduce the depth of control panels



On panel



NEW
Pushbutton Switch
A22N



Digital Timer/Counter
H5CX/H7CX



Digital Temperature
Controller
E5CC

In panel



Programmable Controller
CPIE



Digital Temperature
Controller
E5DC



Switch Mode
Power Supply
S8VK-G



NEW
Uninterruptible
Power Supply (UPS)
S8BA

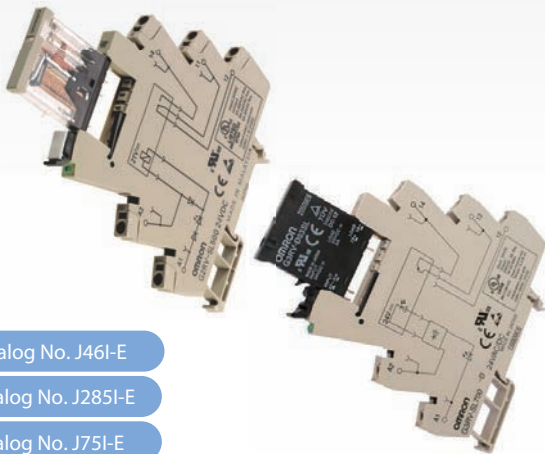
Wide lineup including H3DK Solid-state Timer and G3PE Solid State Relay (single-phase)

The slim shape of the I/O Relays (Solid State Relays) gives flexibility in designing control panels

G2RV/G3RV Series



Maximum switching current of contacts is 6 A for G2RV and 3 A for G3RV with an ultra-thin 6.2-mm width



- Catalog No. J46I-E
- Catalog No. J285I-E
- Catalog No. J75I-E
- Catalog No. J180-E1

Thinner by **70** % compared with our previous product (G2R-1S)



Safety Relay Units for compact and simple safety control

G9SE Series



The slim design of 17.5 or 22.5 mm will thin control panels.



Catalog No. J77I-E

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



Compact, simple, safe, and globally applicable: Pushbutton Switches designed with the worksite in mind

A22N Series



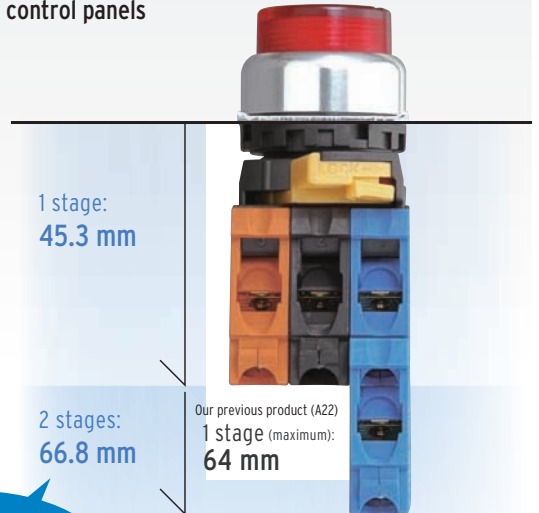
Short body with multiple contacts enables more-compact and thinner control panels



Catalog No. A33I-E

Catalog No. A34I-E

Shorter by **30%** in depth
compared with our previous
product (A22)



Only 66.8 mm with
2 stages!

Smallest in its class*1 DIN Rail-mounting Uninterruptible Power Supplies (UPSs)

S8BA Series

*1. According to OMRON investigation, April 2015.

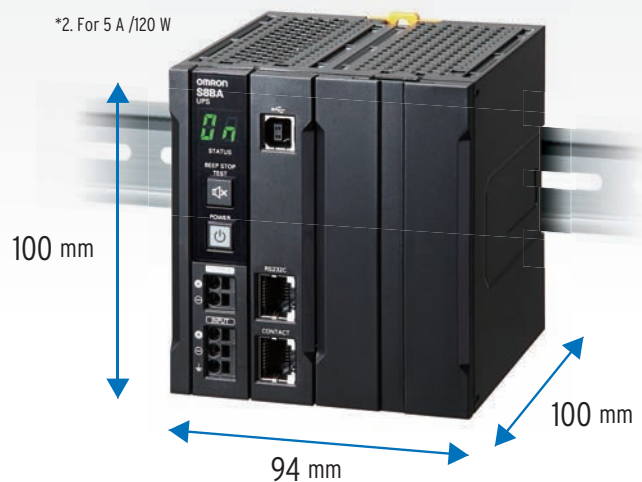


Lithium-ion batteries are used to reduce size and weight, and increase life.

*2. For 5 A /120 W

Smallest and lightest in its class*2

800 g



Catalog No. U22I-E

OMRON AUTOMATION AMERICAS HEADQUARTERS • Chicago, IL USA • 847.843.7900 • 800.556.6766 • www.omron247.com

OMRON CANADA, INC. • HEAD OFFICE

Toronto, ON, Canada • 416.286.6465 • 866.986.6766 • www.omron247.com

OMRON ELECTRONICS DE MEXICO • HEAD OFFICE

México DF • 52.55.59.01.43.00 • 01-800-226-6766 • mela@omron.com

OMRON ELECTRONICS DE MEXICO • SALES OFFICE

Apodaca, N.L. • 52.81.11.56.99.20 • 01-800-226-6766 • mela@omron.com

OMRON ELETRÔNICA DO BRASIL LTDA • HEAD OFFICE

São Paulo, SP, Brasil • 55.11.2101.6300 • www.omron.com.br

OMRON ARGENTINA • SALES OFFICE

Cono Sur • 54.11.4783.5300

OMRON CHILE • SALES OFFICE

Santiago • 56.9.9917.3920

OTHER OMRON LATIN AMERICA SALES

54.11.4783.5300

OMRON EUROPE B.V. • Wegalaan 67-69, NL-2132 JD, Hoofddorp, The Netherlands. • +31 (0) 23 568 13 00 • www.industrial.omron.eu

Authorized Distributor:

Controllers & I/O

- Machine Automation Controllers (MAC) • Motion Controllers
- Programmable Logic Controllers (PLC) • Temperature Controllers • Remote I/O

Robotics

- Industrial Robots • Mobile Robots

Operator Interfaces

- Human Machine Interface (HMI)

Motion & Drives

- Machine Automation Controllers (MAC) • Motion Controllers • Servo Systems
- Frequency Inverters

Vision, Measurement & Identification

- Vision Sensors & Systems • Measurement Sensors • Auto Identification Systems

Sensing

- Photoelectric Sensors • Fiber-Optic Sensors • Proximity Sensors
- Rotary Encoders • Ultrasonic Sensors

Safety

- Safety Light Curtains • Safety Laser Scanners • Programmable Safety Systems
- Safety Mats and Edges • Safety Door Switches • Emergency Stop Devices
- Safety Switches & Operator Controls • Safety Monitoring/Force-guided Relays

Control Components

- Power Supplies • Timers • Counters • Programmable Relays
- Digital Panel Meters • Monitoring Products

Switches & Relays

- Limit Switches • Pushbutton Switches • Electromechanical Relays
- Solid State Relays

Software

- Programming & Configuration • Runtime