

Sustainable control panel enable to reduce environmental impact



For building green control panels

Natural disasters caused by global warming and climate change are became global social issue, that drives over 150 countries and regions worldwide to take action toward decarbonization.Our goal is to reduce greenhouse gas (GHG) emissions toward half by through new ways of building control panels, that key figure of the manufacturing site.



reduces design/ manufacturing work

> Innovation for design, building **Process**

Further Evolution for **Panels**

Panel

Realize compact & highly reliable control panels

Building sustainable control panels

> Creating green control panels

Simple & Easy People

People

Provide reliable and comfortable manufacturing for all people who deal with control panels

Green

Reducing GHG emission of control panels to achieve carbon neutrality





Integrating green perspectives into Value Design

Value Design for Panel (Value Design) is the common concept shared across OMRON's in-panel product specifications to deliver new value to your control panels.

This Value Design also integrate environment consideration concept that enable earth and user-friendly control panel building.



- 1 ---- Unified height & slim size*1
- 2 Side-by-side mounting at (55°C) ambient temperature*2
- 3 Unique Push-In Plus technology*1
- 4 Front-in and front-release wiring
- 5 eCAD library
- 6 ---- Certification for CE, UL, and CSA
- 7 ——— Green features that save energy and resources*3

CFP of control panel (total GHG emissions)*4



- st1. Expect for some products
- \pm 2. Side-by-side mounting is possible in the same series
- st3. Greener design compared to previous (2016) products
- *4. CFP (carbon footprint) of control panel is a calculation result of refering the life cycle assessment method that based on international standards ISO14067 which define CO2 quantitative conversion of the environmental burden at every stage, from manufacturing, transportation, use, and disposal of the control panel (product). According to OMRON investigation in May 2023.

Extensive lineup of products for building sustainable control panels

DIN Track Terminal Blocks

Magnetic Contactors

Ultra-Compact Interface Wiring System

Common **Terminal Blocks** Switch mode power supplies / Related equipment













I/O Relay Terminals



Timers

Motor Protective Relays





Condition Monitoring Devices

Temperature Controllers















Switch mode power supplies / Related equipment











Products that especially contribute to reduce environmental impact

The below products reduce GHG emissions by over 50% compared to previous (2016) products through power-saving, resourcesaving, and reducing waste (according to OMRON investigation in March 2023)

Switch Mode Power Supplies (Three-phase)













Relays, Solid-state Relays













Uninterruptible Power Supplys

Machine Automation Controllers

Safety Relays











Manual Motor Starters

Power Monitors



Pushbutton Switches



Power Monitors



Temperature Controllers





Ultra-Compact Interface Wiring System



DC Electronic Circuit Protectors



Motor Protective Relays/ Timers



Temperature Controllers



For building green control panels

Reducing GHG emissions of control panels

Our low power consumption devices allow you to easily build power-saving control panels, without compromising design philosophy.

CFP of control panel (total GHG emissions) Low power consumption devices enable Previous products power-saving control panels 30% reduction Value Design Resourcesaving

57%

reduction

44%

reduction

13% reduction

78%

reduction

37%

reduction

Reduce control panel power consumption by replacing devices



Reducing power consumption by reviewing specifications

Review of power supply specifications

Specification change point: Circuit change associated with switching from transformer + single phase to three phase

Optimization of endurance specifications

Specification change point:Relay endurance: 500,000 operations min. \rightarrow 100,000 operations min. (at 5A) (Switchable when the required endurance is 100,000 times or less.)

41% reduction in power consumption





G2R-2-S

60% reduction in power consumption



S8VS



S8VK-WA

Transformer Switch Mode **Power Supplies** (Single-phase)

Power Supplies (Three-phase)

Specification change point: Relay endurance: 250,000 operations min. \rightarrow 70,000 operations min. (at 5A) (Switchable when the required current is 6A or less and endurance is 70,000 times or less)

43% reduction in power consumption



G2R-1-S



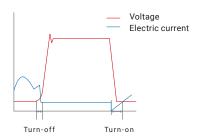
G2RV-ST

Power consumption can be easily reduced by reviewing to the latest model with reduced power consumption and reviewing the most suitable model to optimize the application.

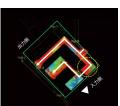
Introduction of Technology for Realizing Low Power Consumption Device

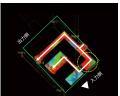
High-density/high-efficiency design that reduces power consumption of power supplies

Switching loss reduced through soft switching (minimizing intersection of voltage and current waveforms)



Noise filtering optimized through thermal analysis





Unique low power consumption display method that reduces temperature controller power consumption



Direct lit



Number of lit LEDs: 13





Edge lit



Number of lit LEDs: 3



For building green control panels

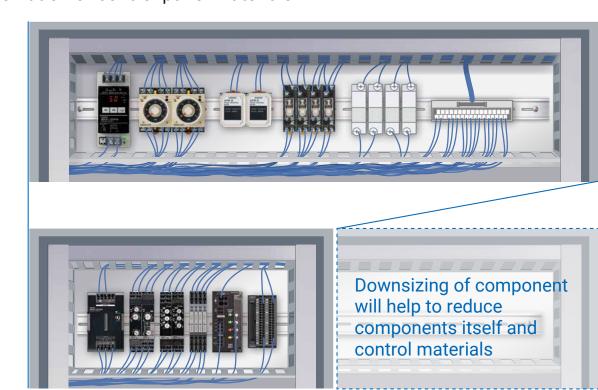
Reducing GHG emissions of control panels

Compact, slim devices with unified height and devices with reduced wiring allow for resource-saving purchased components for control panels.

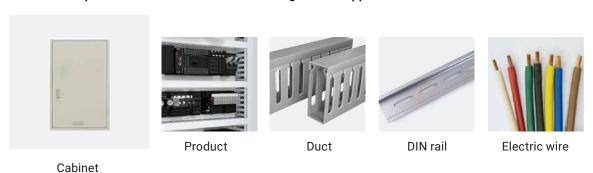
Compact devices and devices with reduced wiring enable resource-saving control panels



Miniaturization of equipment and reduced wiring enable resource conservation of control panel materials



Control components for which resource-saving can be applied



BEFORE

Panel

Additional components lighert weight contribute to material saving of control panels

BEFORE				Value Design Panel			
222	S8FS-G	Weight		in the second	S8VK-W	Weight	
	(600 W 3 units)	4,620 g		to the	(2 kW type)	3,600 g	22% reduction
	XW2R	113 g			XW2K	83 g	27% reduction
	G7TC	728 g			G70V	408 g	44% reduction
	S8VS	1,600 g	•		S8VK-S	945 g	41% reduction
0000	E5CN	190 g			E5CC	157 g	17% reduction
	НЗДК-М	145 g			H3DT-N	122 g	16% reduction
	К8АК-РН	171 g			K8DT	118 g	31% reduction

For building green control panels

Reducing GHG emissions of control panels

OMRON helps you measure how effectively Value Design products actually reduce control panel power consumption.

Power monitors enable easy assessment of power-saving effect



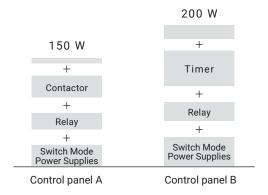
Power monitors enable visualization of power consumption reduction effect on per-control panel basis



Assessment of power consumption reduction effect requires massive effort because each control panel has different device configuration and therefore has to be measured separately

Measurements taken per model and then totaled







Power monitor constantly visualizes power consumption, with no need for separate measurements

Continuous measurement at once without individual measurement







Control panel A

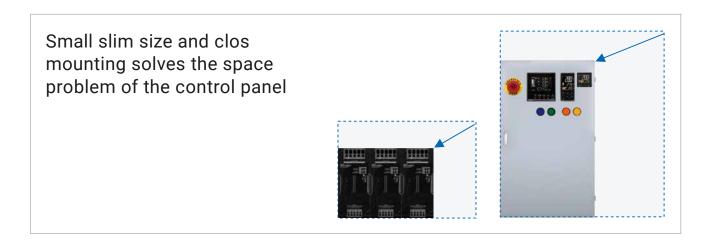
Control panel B

Power Monitors (KM-N2-FLK)

Further Evolution for Panels

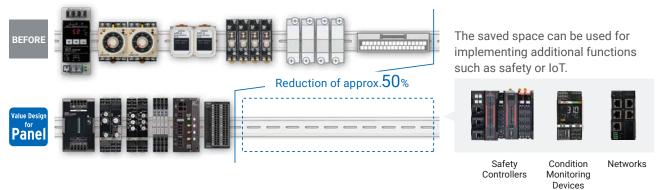
Saving Space and More-advanced Control Panels

Unified size and side-by-side mounting help delivering more compact control panels with additional functionality.



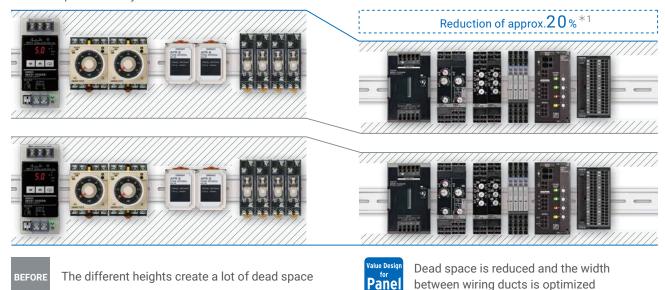
Slim + Side-by-side mounting technology save space, and make moreadvanced Control Panels

You can add a new function, at the re-engineering stage for improving product quality and securing safety of the production line.



Unified height reduces dead space and downsizes control panels

When newly designing, you can decrease the height of a control panel to secure a wide view of a whole production line for improved safety.



Simple & Easy People

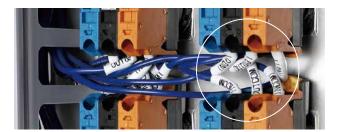
Reducing Wiring Work

Push-In Plus technology and Front-in / Front-release Wiring allow wiring work easier and speedier.

Push-in Plus technology solves control panel wiring issues



Front-in Wiring improves workability and safety without interference of wires even in the narrow space among devices





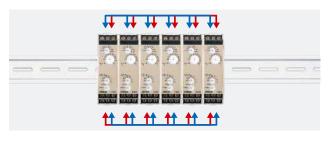
Hard wiring in the narrow space by the interference of wires due to the screw terminals requiring wiring in vertical direction





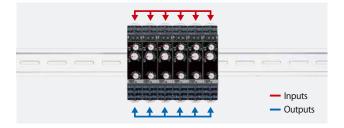
No interference of wiring helps improve workability and safety

Improved wiring workability by unified I/O terminal positions on the top and bottom





Hard wiring due to mixed I/O terminals located on the top and bottom





Unified method so that inputs are on the top and output

Easy wiring with both hands for stranded wires with holding screwdriver





One hand wiring with the other hand holding the screwdriver





Wiring with both hands, because the screwdriver is held in the release hole

design, building Process

Shortening Lead Time for Control Panel Building

Compatible with eCAD and worldwide safety standards, accelerating an entire process of control panel manufacturing



Design

eCAD library provided for all models greatly reduces design work

OMRON provides the libraries for over 48,000 models *2, highest in the industry, to achieve the great reduction of works for electrical design drawing and data creation.



eCAD Partners

By cooperating with various partners, we offer you more choices for your eCAD solutions.







uken Inc.

LFLAN

*1. In the case of ZUKEN E3 series*2. In the case of EPLAN, based on OMRON's investigation as of 2020 December

Assembly/ Wiring

Push-In Plus technology requires only a single step, greatly reducing wiring work



- 1. Remove the screw
- 2. Connect with the terminal
- 3. Tighten the screw
- 4. Put a check mark
- 5. Retighten the screw



1. Insert the terminal





A lot of steps are required to complete wiring for the screw terminal...



Push-In Plus technology completes by a single step

*3. Information for Push-In Plus and Screw Terminal Blocks is based on OMRON's actual measurement data

Shipment/ Operation

No need for retightening, even when vibration is applied on terminals

The pressure of the clamp spring holds the ferrule or wire securely with Push-In Plus technology, eliminating worries about screws loosening or disconnection due to vibration.









Retightening is needed before export and shipment





Selection Guide

Available in a wide range from input to control, output, and safety.

>P.16-18

Smart Power Supply S8AS2



Switch Mode Power Supplies (Single-phase) S8VK-S



Switch Mode Power Supplies (Single-phase/With displays and communications) S8VK-X



Noise Filters S8V-NF



Switch Mode Power Supplies (Three-phase/single-phase) S8VK-WA (Three-phase) S8VK-WB



DC Electronic Circuit Protectors S8V-CP



>P.19-20

Magnetic Contactors (Contactor) J7KC



Manual Motor Starters J7MC



Thermal Overload Relays J7TC



Auxiliary Relay (Contactor Relays) J7KCA



>P.25

Solid-state Timers H3DT



>P.26

Motor Protective Relays K8DT



>P.27

DIN Track Terminal Blocks XW5T



>P.28

Ultra-Compact Interface Wiring System XW2K



Ultra-Compact Common Terminal Blocks XW2K-COM







Single-phase input type (With Indication and Electronic Circuit Protectors) S8AS2





- · An all-in-one solution combining power, protection, and connectivity
- Outstanding tripping performance deliver enhanced stability to your power systems.

Input voltage	Output voltage	Capacity	Maximum cutoff output current (per branch)	Total output current	Number of output branches	Parameter settings	Model	Size W×H×D (mm)
				10.4	6 branch	Changeable	S8AS2-24024-06S	92×115×125.4
100 to	24.1/	240 W	2.0.4	10 A	outputs	Not changeable	S8AS2-24024-06SN	92×115×125.4
240 VAC 24 V 480 V	400 W	3.8 A	20 A	8 branch	Changeable	S8AS2-48024-08S	115×115×125.4	
	400 00			outputs	Not changeable	S8AS2-48024-08SN	115×115×125.4	

Single-phase input type S8VK-S

Cat. No. T205







Rated input voltage	Rated output voltage	Power rating	Rated output current	Maximum boost current	Model	Size W×H×D (mm)
		30 W	1.3 A	1.56 A	S8VK-S03024	32×90×86
100 to 240 VAC		60 W	2.5 A	3 A	S8VK-S06024	32×90×86
(allowable range: 85 to 264VAC or	24 VDC	120 W	5 A	6 A	S8VK-S12024	55×90×86
90 to 350 VDC)		240 W	10 A	15 A	S8VK-S24024	38×124×117.8
	4	480 W	20 A	30 A	S8VK-S48024	60×124×117.8

Single-phase input type (With Indication and communication) S8VK-X

Cat. No. T210

- Product replacement time, output voltage, output current, and more are acquired on the network and can be managed all at once.
- Product status can be checked on-site using the indication monitor.



With Indication Monitor

Rated input voltage	Rated output voltage	Power rating	Rated output current	Maximum boost current	Model	Size W×H×D (mm)
100 to 240 VAC		90 W	3.75 A	_	S8VK-X09024A-EIP	55×90×86
(allowable range:	24.1/DC	120 W	5 A	6 A	S8VK-X12024A-EIP	55×90×86
85 to 264 VAC, 90 to 350 VDC)	24 VDC	240 W	10 A	15 A	S8VK-X24024A-EIP	38×124×117
		480 W	20 A	30 A	S8VK-X48024A-EIP	60×124×117

Without Indication Monitor

Rated input voltage	Rated output voltage	Power rating	Rated output current	Maximum boost current	Model	Size W×H×D (mm)
	5 VDC	30 W	5 A *1	6 A	S8VK-X03005-EIP	40×90×86
	12 VDC	60.14/	4.5 A *2	5.4 A	S8VK-X06012-EIP	40×90×86
100 to 240 VAC		60 W	2.5 A	3 A	S8VK-X06024-EIP	40×90×86
(allowable range: 85 to 264 VAC,		90 W	3.75 A	_	S8VK-X09024-EIP	55×90×86
90 to 350 VDC)	24 VDC	120 W	5 A	6 A	S8VK-X12024-EIP	55×90×86
,		240 W	10 A	15 A	S8VK-X24024-EIP	38×124×117
		480 W	20 A	30 A	S8VK-X48024-EIP	60×124×117

 $[\]star$ 1. Output power is 25 W at rated output current.

For detailed information such as formats and options other than those listed, please refer to the catalog data sheet of each product.D (depth) of the external dimension is the length from the front to the DIN rail.

^{*2.} Output power is 54 W at rated output current.

Three-phase input type S8VK-W

Cat. No. T219

- •Three-phase Input Power Supplies harmonized with Value design for Panel concept.
- With a line-up that includes two model types, 200 to 240 V input and 380 to 480 V input.



Rated input voltage	Rated output voltage	Power rating	Rated output current	Maximum boost current	Model	Size W×H×D (mm)
Three-phase / single-phase		240 W	10 A	15 A	S8VK-WA24024	55×124×117
200 to 240 VAC(Allowable range:Three- phase / single-phase170 to 264 VAC, 240	24 VDC	480 W	20 A	30 A	S8VK-WA48024	65×124×117
to 350 VDC)		960 W	40 A	60 A	S8VK-WA96024	118×124×117
Three-phase / single-phase 200 to 240 VAC(Allowable range:	24 VDC	2000 W	85 A	127.5 A	S8VK-WA20224	190×124×129
Three-phase / singlephase 170 to 264 VAC, 240 to 384 VAC)	48 VDC	2000 W	45 A	67.5 A	S8VK-WA20248	190×124×129

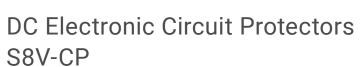
Rated input voltage	Rated output voltage	Power rating	Rated output current	Maximum boost current	Model	Size W×H×D (mm)
		240 W	10 A	15 A	S8VK-WB24024	55×124×117
Three-phase / two-phase	24 VDC	480 W	20 A	30 A	S8VK-WB48024	65×124×117
380 to 480 VAC		960 W	40 A	60 A	S8VK-WB96024	118×124×117
(Allowable range: Three-phase / two-phase 320 to 576 VAC, 450 to 810 VDC)		240 W	5 A	7.5 A	S8VK-WB24048	55×124×117
	48 VDC	480 W	10 A	15 A	S8VK-WB48048	65×124×117
		960 W	20 A	30 A	S8VK-WB96048	118×124×117

Noise Filters S8V-NF

Cat. No. T212

- Featuring a Slim Design that Saves Space
- Push-In Connections for Safe and Easy Wiring

Rated input voltage	Rated output voltage	Model	Size W×H×D (mm)
250 VAC	3 A	S8V-NFS203	22 × 0.0 × 0.6
250 VDC	6 A	S8V-NFS206	32×90×86



Cat. No. T226

- Simplified safety design of DC circuits
- Saves space even with multi-channel

Number of Outputs	UL Class 2 output	Rated output voltage	Model	Size W×H×D (mm)	
4 a b	NO		S8V-CP0424	44.0×00×00.0	
4 011	4 ch YES 24 VDC		S8V-CP0424S	44.8×90×90.8	
8 ch	NO		S8V-CP0824	42×127×118.1	





Magnetic Contactors (Contactor) J7KC

Cat. No. J230

- Motor Control up to 2.2 kW (200 to 240 VAC) ,5.5 kW (380 to 440 VAC), AC-3 class compatible, ideal for small pumps such as conveyors and coolant pumps.
- Magnetic Contactor with Mirror contacts according to EN 60947-4-1 in safety applications, whose switching function is controlled by a safety-related system.



Product Type	Operation	Coil rating	Auxiliary contact	Model	Size W×H×D (mm)	
		04.1/4.0	SPST-1NO	J7KC-12-10 AC24		
		24 VAC	SPST-1NC	J7KC-12-01 AC24		
		100 VAC	SPST-1NO	J7KC-12-10 AC100		
	AC aparatad	100 VAC	SPST-1NC	J7KC-12-01 AC100		
Magnetic	AC-operated	200 VAC	SPST-1NO	J7KC-12-10 AC200	45×67.5×49	
contactor		200 VAC	SPST-1NC	J7KC-12-01 AC200		
		230 VAC	SPST-1NO	J7KC-12-10 AC230		
		230 VAC	SPST-1NC	J7KC-12-01 AC230		
	DC-operated	24.VDC	SPST-1NO	J7KC-12-10 DC24		
	(With built-in surge absorption unit)	24 VDC	SPST-1NC	J7KC-12-01 DC24		
	AC aparatad	200.1/4.0	SPST-2NO	J7KCR-12-10 AC200		
Reversing	AC-operated	200 VAC	SPST-2NC	J7KCR-12-01 AC200	00.5.77.5.70	
magnetic contactor	DC-operated	24.VDC	SPST-2NO	J7KCR-12-10 DC24	90.5×77.5×78	
contactor	(With built-in surge absorption unit)	24 VDC	SPST-2NC	J7KCR-12-01 DC24		

Auxiliary contact unit

Number of poles	Auxiliary contact	Model
2 Poles	2PST-1NO 1NC	J73KC-AM-11
	4PST-4NO	J73KC-AM-40
4 Poles	4PST-2NO 2NC	J73KC-AM-22
	4PST-4NC	J73KC-AM-04

Auxiliary Relays(Contactor Relay) J7KCA

Cat. No. J232

• Same shape as J7KC magnetic contactors Ideal for standardizing panel design

Coil rating	Contact configuration	Model	Size W×H×D (mm)
	4PST-4NO	J7KCA-40 DC24	
24 VDC	4PST-3NO 1NC	J7KCA-31 DC24	45×67.5×49
	4PST-2NO 2NC	J7KCA-22 DC24	



For detailed information such as formats and options other than those listed, please refer to the catalog data sheet of each product.

Manual Motor Starters J7MC

Cat. No. T212

- MPCB system, protection from Overload, Phase failure and Short Circuit
- In combination with magnetic contactor model J7KC, it is ideal for control of motors to AC-3 class, 2.2 kW (200 to 240 VAC) *1 or 5.5 kW (380 to 440 VAC).



* 1.	Based	on	JIS	C	820	1-4-	-1
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and full lo	d motor capacity ad current values)*2	Current setting range	Rocker switch (standard type		Rotary (high-perfo	Magnetic contactor	
200 to 2 Capacity [kW]	240 VAC Current [A]	Rated operating current [A]	Model	Size W×H×D (mm)	Model	Size W×H×D (mm)	model
_	_	0.1-0.16	J7MC-3P-E16		J7MC-3R-E16		
0.03	0.24	0.16-0.25	J7MC-3P-E25		J7MC-3R-E25	45×	17//0.10
0.06	0.37	0.25-0.4	J7MC-3P-E4		J7MC-3R-E4		
_	_	0.4-0.63	J7MC-3P-E63		J7MC-3R-E63		
0.1	0.68	0.63-1	J7MC-3P-1		J7MC-3R-1		
0.2	1.3	1-1.6	J7MC-3P-1E6	45×120×747	J7MC-3R-1E6		
0.4	2.3	1.6-2.5	J7MC-3P-2E5	45×130×74.7	J7MC-3R-2E5	130×94.7	J7KC-12
0.75	3.5	2.5-4	J7MC-3P-4		J7MC-3R-4		
_	_	4-6.3	J7MC-3P-6		J7MC-3R-6		
1.5	6.9	6.3-10	J7MC-3P-10		17MC 2D 10		
2.2	9.5	0.3-10	J/WIC-3P-10		J7MC-3R-10		
2.2	9.5	9-13	J7MC-3P-13		J7MC-3R-13		

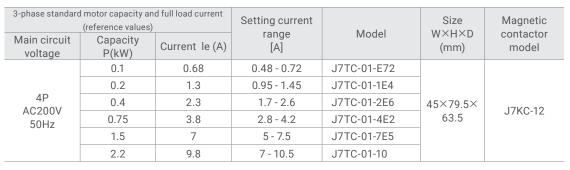
^{*2.} The 3-phase motor full load current is a reference value. When applying, check the full load current of the motor you will use.

Thermal Overload Relays J7TC

Cat. No. T212

- · One-touch Installation with magnetic contactor J7KC to configure a magnetic starter
- Motor Protection from Overload and Phase -loss by Combination with J7KC for up to 2.2 kW (240 VAC), 5.5 kW (440 VAC).





Note: The 3-phase motor full load current is a reference value. When applying, check the full load current of the motor you will use.



Sockets with Push-In Plus technology

PYF- -- -- PU/PTF- -- -- PU/

P2RF-□□-PU/P7SA-PU

Cat. No. J212, J120

 Sockets with Push-In Plus technology to Save Work Added to Series for MY, LY, G2R-S Relays and G7SA Relays with Forcibly Guided Contacts



Applicabl	e model (typical examp	le)	No. of poles	Model	Size W×H×D (mm)	
	NAV O circo	MY2	2	PYF-08-PU	01,000,71.4	
	MY Seires	MY4	4	PYF-14-PU	31×90×71.4	
		LY2	2	PTF-08-PU	24.8×90×70.1	
	LY Seires	LY2-CR	2	PTF-08-PU-L	24.8×90×52.1	
General Purpose		LY4	4	PTF-14-PU-L	43.4×90×52.1	
Relays	00110	G3H				
	G3H Seires	G3HD	1	PTF-08-PU	24.8×90×70.1	
	G9H Seires G9H					
	000 - 00 -	G2R-1-S	1	P2RF-05-PU	15 5 7 0 0 7 5 7	
	G2R-□-S Seires	G2R-2-S	2	P2RF-08-PU	15.5×90×57	
	LIOV. LIOVAL O discon	H3Y(N)-2-B	2	PYF-08-PU-L		
T:	H3Y、H3YN Seires	H3Y(N)-4-B	4	PYF-14-PU-L	31×90×57	
Timers	LIODALO	H3RN-1-B	1	P2RF-05-PU		
	H3RN Seires	H3RN-2-B	2	DODE OO DU	15.5×90×57	
Liquid Leakage Sensors	K7L Seires	K7L-□B	2	P2RF-08-PU		
Relays with Forcibly	G7SA Seires	G7SA	4	P7SA-10F-ND-PU DC24	22.5×100×61	
Guided Contacts	G/3A Selles	G/SA	6	P7SA-14F-ND-PU DC24	27.7×100×61	

PYF-PU-Applicable Models

Applicable models	General Pur	pose Relays	SSRs	Timers		
	MY2	MY4	G3F/G3FD	H3Y(N)-2-B	H3Y(N)-4-B	
No. of poles	2	4	1	2	4	
Socket model	PYF-08-PU	PYF-14-PU	PYF-08-PU	PYF-08-PU-L*1	PYF-14-PU-L*1	
Appearance	a 2.72	William Willia		and and	Daine Market	

PTF-PU-Applicable Models

Applicable models	Ge	eneral Purpose Rela	ays	SSRs	Temperature	e Controllers
Applicable filodels	LY2	LY2-CR	LY4	G3H/G3HD/G9H	E5L-A	E5L-C
No. of poles	2	2	4	1	_	_
Socket model	PTF-08-PU	PTF-08-PU-L*1	PTF-14-PU-L*1	PTF-08-PU	PTF-14-PU-L*1	PTF-14-PU-L*1
Appearance						

P2RF-PU-Applicable Models

Applicable models	General Pur	pose Relays	SSRs	Tim	ners	Liquid Leakage Sensor Amplifiers
	G2R-1-S	G2R-2-S	G3R-I/O/G3RZ	H3RN-1-B	H3RN-2-B	K7L-B
No. of poles	1	2	1	1	2	_
Socket model	P2RF-05-PU	P2RF-08-PU	P2RF-05-PU	P2RF-05-PU	P2RF-08-PU	P2RF-08-PU
Appearance						

P7SA-PU-Applicable Models

Appliachle medale	Relays with Forcibly Guided Contacts				
Applicable models	G7SA	G7SA			
No. of poles	4	6			
Socket model	P7SA-10F-ND-PU DC24	P7SA-14F-ND-PU DC24			
Appearance	32.2				

^{*}A release lever is not included.

Slim I/O Relays G2RV-ST

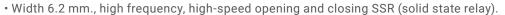
Cat. No. J267

- Slim I/O relay with width 6.2 mm
- •The test button function and mounted relay use plug-in terminals that are difficult to bend when exchanging.
- Since G2RV is a transparent case, confirming the state of the contact with the naked eye is possible, and easy to confirm abnormality on-site (installed location).

Classification	Latching lever (Test switch)	Rated input voltage	Model	Size W×H×D (mm)	
		12 VDC	G2RV-ST500 12 VDC		
		24 VDC	G2RV-ST500 24 VDC		
	No	24 VAC/VDC	G2RV-ST500 24 VAC/VDC		
Standard	NO	48 VAC/VDC	G2RV-ST500 48 VAC/VDC		
Standard		100 VAC	G2RV-ST500 100 VAC		
		200 VAC	G2RV-ST500 200 VAC	6.2×90×88	
	Yes	24 VDC	G2RV-ST501 24 VDC		
	res	24 VAC/VDC	G2RV-ST501 24 VAC/VDC		
		12 VDC	G2RV-ST500-AP 12 VDC		
Microloads	No	24 VDC	G2RV-ST500-AP 24 VDC		
		24 VAC/VDC	G2RV-ST500-AP 24 VAC/VDC		

Slim I/O Solid State Relays G3RV-ST

Cat. No. J267



Applicable output load	Zero cross function	Rated input voltage	Model	Size W×H×D (mm)	
		12 VDC	G3RV-ST500-D 12 VDC		
		24 VDC	G3RV-ST500-D 24 VDC		
DC load	_	24 VAC/VDC	G3RV-ST500-D 24 VAC/VDC		
		100 VAC	G3RV-ST500-D 100 VAC		
		200 VAC	G3RV-ST500-D 200 VAC		
DC load (high-speed	_	24 VDC	G3RV-ST500-D-H 24 VDC		
opening and closing)	_	24 VAC/VDC	G3RV-ST500-D-H 24 VAC/VDC	6.2×90×88	
		12 VDC	G3RV-ST500-A 12 VDC		
	Yes	24 VDC	G3RV-ST500-A 24 VDC		
AC load		24 VAC/VDC	G3RV-ST500-A 24 VAC/VDC		
Ao ioaa		12 VDC	G3RV-ST500-AL 12 VDC		
	No	24 VDC	G3RV-ST500-AL 24 VDC		
		24 VAC/VDC	G3RV-ST500-AL 24 VAC/VDC		

For detailed information such as formats and options other than those listed, please refer to the catalog data sheet of each product.





Terminal Relays G6D-F4PU/G3DZ-F4PU

Cat. No. J228



- Model with Push-In Plus technology Added to Terminal Relays with Four-point Output Lineup.
- Rated 5A is achieved with optimum designs than conventional screw-type G6D-F4B (rated 3A).

Wide Variety of Application

Mounted Relay type	Contact form	Operation coil ratings	Model	Size W×H×D (mm)	
Mechanical Relay		12 VDC	G6D-F4PU DC12		
	SPST x 4	24 VDC	G6D-F4PU DC24	01,400,405	
Power MOS FET relay	(1NO x 4)	12 VDC	G3DZ-F4PU DC12	31×90×35	
		24 VDC	G3DZ-F4PU DC24		

I/O Relay Terminals G70V

Cat. No. J215

• I/O Relay Terminals with 16 Points and Push-In Plus terminal blocks to Downsize Control Panels and Save Labor





Classification	Point	Common Line		Rated	Model	Size	
Classification	Polit	Terminal Block Side	Connector Side	voltage	Wodel	W×H×D (mm)	
		No internal	NPN(- common)		G70V-SID16P		
Input		connections	PNP(+ common)		G70V-SID16P-1		
pat		16 points internally	NPN(- common)		G70V-SID16P-C16		
		connected	PNP(+ common)		G70V-SID16P-1-C16		
	16	No internal connections	NPN(+ common)	24 VDC	G70V-SOC16P	143×90×56	
			PNP(- common)		G70V-SOC16P-1		
Output		Every 4 points internally	NPN(+ common)		G70V-SOC16P-C4		
		connected at terminal block bottom row	PNP(- common)		G70V-SOC16P-1-C4		

- Width 6.2 mm., high frequency, high-speed opening and closing SSR (solid state relay).
- Realized a slim shape with a switching capacity up to 3 A (DC), and 2 A (AC)

Solid-state Timers H3DT

Cat. No. M090

- \bullet Slim Timers (17.5-mm width) with two sets of contacts: One of the slimmest Timers worldwide. *1
- \bullet Reduces power consumption (active power) by up to 60% to help reduce heat generation in control panels.*2



^{*2.}Based on OMRON comparison (excluding the H3DT-H).



Operating modes	Supply voltage	Туре	Control output	Model	Size W×H×D (mm)
		Standard Eight-mode Timer	Contact output, DPDT (time-limit DPDT,	H3DT-N2	
Eight-mode Timer		Expansion Eight-mode Timer	or timelimit SPDT + instantaneous SPDT) Changed using a switch.	H3DT-L2	
Tillel		Standard Eight-mode Timer	Contact output, SPDT (time-limit SPDT)	H3DT-N1	
		Expansion Eight-mode Timer		H3DT-L1	
Power ON-delay	24 to 240 VAC/DC	_	Contact output, DPDT (time-limit DPDT)	H3DT-A2	
		_	Contact output, SPDT (time-limit SPDT)	H3DT-A1	
Flicker OFF Start, ON start		Twin Timer (Independent ON time and OFF time settings)	Contact output: SPDT	H3DT-F	
Star-delta		_	Contact outputs Delta circuit: SPDT, Star circuit: SPDT	H3DT-G	
	100 to 120 VAC	S Series (time range: 0.1 to 12 s)		H3DT-HCS	17.5×90×90
		L Series (time range: 1.0 to 120 s)		H3DT-HCL	
	200 to 240 VAC	S Series (time range: 0.1 to 12 s)		H3DT-HDS	
	200 to 240 VAC	L Series (time range: 1.0 to 120 s)		H3DT-HDL	
		S Series (time range: 0.1 to 12 s)	Contact output:	H3DT-HBS	
Power OFF-delay	24 to 48 VAC/DC	L Series (time range: 1.0 to 120 s)	SPDT	H3DT-HBL	

Measuring and Monitoring Relays K8DT

- Models with transistor outputs available for long-term contact reliability.
- Control panel downsizing and reduced wiring; flexible layout with a 17.5-mm width
- Push-In Plus terminal blocks for easy wiring



	ring and ng object	Input	Output	Alarm operation	Function	Series name*1	Size W×H×D (mm)
		Current		Upper or lower limit (switched)	Single-phase Undercurrent or Single-phase Overcurrent	K8DT-AS Cat. No. N201	
	Single	Current		Upper and lower limits (redundant operation	Single-phase Undercurrent Single-phase Overcurrent	K8DT-AW Cat. No. N202	
	phase	Voltago		Upper or lower limit (switched)	Single-phase Undervoltage or Single-phase Overvoltage	K8DT-VS Cat. No. N203	
Motor	protection One SPDT		Upper and lower limits (redundant operation	Single-phase Undervoltage Single-phase Overvoltage	K8DT-VW Cat. No. N204		
protection		One SPDT	Fixed	Phase sequence 、 Phase loss	K8DT-PH Cat. No. N206		
	Three		relay output or One Transistor		Phase sequence, Phase loss, Three-phase Undervoltage, Three-phase Overvoltage	K8DT-PM Cat. No. N207	17.5×90×90
	phase	Voltage		Upper and lower limits	Phase sequences Phase losss Three-phase Undervoltages Three-phase Overvoltages Three-phase Asymmetry	K8DT-PZ Cat. No. N208	
	erature toring	Thermocouple or platinum resistance thermometer		Upper or lower limit (switched)	Temperature Monitoring	K8DT-TH Cat. No. N209	
	r level ntrol	Electrode		Water supply or discharge (switched)	Water level control	K8DT-LS Cat. No. N205	

 $^{*1.} For detailed format specifications and inventory information, please refer to Catalog \ or \ data \ sheet.$

DIN Track Terminal Blocks XW5T

Cat. No. G124





Common specifications				Feed Through Terminal blocks (Dark gray)	Grounding Terminal blocks (Green / Yeloow)	Size
Product Type	Applicable wire sizes*1	Number of levels	Wiring	Model	Model	W×H×D (mm)
Otto med a med	0.08 mm² to 1.5 mm² AWG28 to AWG16			XW5T-P1.5-1.1-1	XW5G-P1.5-1.1-1	3.5×45×30.5
Standard terminals	0.14 mm² to 2.5 mm² AWG26 to AWG14	1	1:1	XW5T-P2.5-1.1-1	XW5G-P2.5-1.1-1	5.2×48.8×35.3
terrilliais	0.2 mm² to 4.0 mm² AWG24 to AWG12			XW5T-P4.0-1.1-1	XW5G-P4.0-1.1-1	6.2×56.1×35.3
A.A. Jat at	0.08 mm² to 1.5 mm² AWG28 to AWG16			XW5T-P1.5-1.1-2	XW5G-P1.5-1.1-2	3.5×65.7×41.1
Multi tiers terminal	0.14 mm² to 2.5 mm² AWG26 to AWG14	2	1:1	XW5T-P2.5-1.1-2	XW5G-P2.5-1.1-2	5.2×78.8×45.9
terrimai	0.2 mm² to 4.0 mm² AWG24 to AWG12			XW5T-P4.0-1.1-2	XW5G-P4.0-1.1-2	6.2×85×45.9
	0.08 mm² to 1.5 mm² AWG28 to AWG16			XW5T-P1.5-1.2-1	XW5G-P1.5-1.2-1	3.5×54.1×30.5
A.A. 111	0.14 mm² to 2.5 mm² AWG26 to AWG14	1	1:2	XW5T-P2.5-1.2-1	XW5G-P2.5-1.2-1	5.2×60.5×35.3
Multi	0.2 mm² to 4.0 mm² AWG24 to AWG12			XW5T-P4.0-1.2-1	XW5G-P4.0-1.2-1	6.2×66.5×35.3
conductor terminals	0.08 mm²v1.5 mm² AWG28 to AWG16			XW5T-P1.5-2.2-1	XW5G-P1.5-2.2-1	3.5×63.2×30.5
terrilliais	0.14 mm² to 2.5 mm² AWG26 to AWG14	1	2:2	XW5T-P2.5-2.2-1	XW5G-P2.5-2.2-1	5.2×72.2×35.3
	0.2 mm² to 4.0 mm² AWG24 to AWG12			XW5T-P4.0-2.2-1	XW5G-P4.0-2.2-1	6.2×76.9×35.3

Common Terminal Blocks XW6T

Cat. No. G139

- Downsize Control Panels and Save Work with Common Terminal Blocks with Visible Indicators
- Indicators make wiring completion simply visible. Proper wiring without skillful operators.



Common s	specifications Color of Short	Applicable	Model		Applicable	Model	Size W×H×D
pins	Bars	wire sizes*1		(mm)	wire sizes*		(mm)
	Red		XW6T-COM1.5X8RD	9.2×78		XW6T-COM2.5X8RD	12.6×82.6
8	Blue		XW6T-COM1.5X8BL			XW6T-COM2.5X8BL	
	Yellow		XW6T-COM1.5X8YL	×31.3		XW6T-COM2.5X8YL	×36.1
	Red		XW6T-COM1.5X12RD			XW6T-COM2.5X12RD	17.8×82.6
12	Blue		XW6T-COM1.5X12BL	12.7×78×31.3		XW6T-COM2.5X12BL	×36.1 23.0×82.6
	Yellow		XW6T-COM1.5X12YL			XW6T-COM2.5X12YL	
	Red	0.08~1.5 mm²/	XW6T-COM1.5X16RD		0.14 to	XW6T-COM2.5X16RD	
16	Blue		XW6T-COM1.5X16BL	16.2×78×31.3	2.5 mm²/	XW6T-COM2.5X16BL	
	Yellow	AWG28~16	XW6T-COM1.5X16YL		AWG26 to 14	XW6T-COM2.5X16YL	×36.1
	Red		XW6T-COM1.5X20RD			XW6T-COM2.5X20RD	28.2×82.6
20	Blue		XW6T-COM1.5X20BL	19.7×78×31.3		XW6T-COM2.5X20BL	
	Yellow		XW6T-COM1.5X20YL			XW6T-COM2.5X20YL	×36.1
	Red		XW6T-COM1.5X40RD			XW6T-COM2.5X40RD	54.2×82.6
40	Blue		XW6T-COM1.5X40BL	37.2×78×31.3		XW6T-COM2 5X40BI	
	Yellow		XW6T-COM1.5X40YL			XW6T-COM2.5X40YL	×36.1

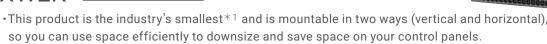
^{*1.}For stranded lines

For detailed information such as formats and options other than those listed, please refer to the catalog data sheet of each product.

Ultra-Compact Interface Wiring System

XW2K

Cat. No.G152



• Wiring patterns specifically designed for connections with the PLCs of each company reduce the work required for signal layout checking.

*1. According to OMRON investigation in March 2022

Ultra-Compact Connector-Terminal Blocks (For PLC Connection)

Applicable PLCs	Circuit	I/O Points	Model	Dimension W×H×D (mm)			
7.5511042101 200	on our	., 0 : 0	dei	Vertical mount	Horizontal mount		
OMRON, Yokogawa	Circuit pattern A		XW2K-40G-032A				
Electric,	Circuit pattern B		XW2K-40G-032B				
Hitachi Industrial Equipment Systems	dustrial Circuit pattern A		XW2K-40G-032C	39×75×40.8	75×39×40.8		
Mitsubishi Electric, Fuji Electric	Mixed I/O		XW2K-40G-M32				
KEYENCE	Mixed I/O	1	XW2K-40G-K32				

Ultra-Compact Connector-Terminal Blocks (For PLC Connection • Integrated Common Terminal Type)

Applicable PLCs	Circuit	I/O Points	Model	Dimension W	Dimension W×H×D (mm)		
Applicable i Los	Ollouit	1/01 011113	Iviouei	Vertical mount	Horizontal mount		
OMRON	Input	16 Points	XW2K-20G-016A-IN	52.7×75×40.8	75×52.7×40.8		
UMRUN	Output	16 Points	XW2K-20G-016B-0UT	39×75×40.8	75×39×40.8		
OMRON, Yokogawa	Input(Circuit pattern A)		XW2K-40G-032A-IN	52.7×124×40.8	124×52.7×40.8		
Electric,	Input(Circuit pattern C)		XW2K-40G-032C-IN	52.7 ^ 124 ^ 40.0	124/32.7/40.0		
Hitachi Industrial	Output(Circuit pattern B)		XW2K-40G-032B-0UT	39×124×40.8	124×39×40.8		
Equipment Systems	Input(Circuit pattern C)	00 D-:t-	XW2K-40G-032C-0UT	39/124/40.0	124/39/40.0		
Mitsubishi Electric,	Input	32 Points	XW2K-40G-M32-IN	52.7×124×40.8	124×52.7×40.8		
Fuji Electric	Output		XW2K-40G-M32-0UT	39×124×40.8	124×39×40.8		
KEYENCE	Input		XW2K-34G-K32-IN	52.7×124×40.8	124×52.7×40.8		
RETENCE	Output		XW2K-34G-K32-OUT	39×124×40.8	124×39×40.8		

Ultra-Compact Connector-Terminal Blocks (General-Purpose)

Circuit	Connector poles	Model	Dimension W \times H \times D (mm)		
0110411	oomiootoi poioo	Wodo	Vertical mount	Horizontal mount	
	20 poles	XW2K-20G-T	39×56×40.8	56×39×40.8	
Straight wiring	34 poles	XW2K-34G-T	39×75×40.8	75×39×40.8	
(1:1 Circuit)	40 poles	XW2K-40G-T	39×75×40.8	75×39×40.8	
	50 poles	XW2K-50G-T	39×92.5×40.8	92.5×39×40.8	

■Applicable PLCs

- OMRON: CS, CJ and NX series Mitsubishi Electric: MELSEC L, Q and iQ-R series KEYENCE: KV-1000, 3000, 5000, 5500 and Nano series
- · Yokogawa Electric: FA-M3 series · Hitachi Industrial Equipment Systems: EH-150/EHV series · Fuji Electric: MICREX-SX series

Ultra-Compact Common Terminal Blocks

(For Sensor Power Supply)

XW2K-COM Cat. No.G152

· Ideal for supplying power to a sensor or actuator

Number of poles	Application	Model	Dimension W×H×D (mm)
	For + common	XW2K-COM20N	
20 poles	For - common	XW2K-COM20P	14.8×75×29.4
	+/- mix	XW2K-COM20	

Note. It is a small model that is ideal for sensor power supply, but it can also be used for uses other than sensor power supply (e.g. AC circuit).



Solid State Relays for Heater G3PJ

Cat. No. J210

• Single-phase SSR for low heat generation enables carrying 25 A even for close mounting of three SSRs to contribute to downsizing of control panels.



Input	Output	Insulation	Rated	Zero Rated		Rated load curre temperature of	`	Model	Size					
terminal	terminal	method	input voltage	function	voltage	Close mounting (Three SSRs)	Separate mounting	Wodel	W×H×D (mm)					
							24 to 240	15A	18A	G3PJ-215B-PU DC12-24				
Push-In Plus	Screw	Phototriac	12 to 24				VAC	25A	27A	G3PJ-225B-PU DC12-24	22 5 7 2 4 7 1 2 2			
terminal blocks	terminals	coupler	VDC				1	res	res	165	165	res	100 to	15A
										VAC	25A	27A	G3PJ-525B-PU DC12-24	

Power Monitors KM-PM/KM-N2/KM-N3

KM-PM Cat.No. SGTE-729 KM-N2/KM-N3 Cat.No. N213



- Solve design, installation, and operation topics with one model for each installation type
- Designed for global use, with support for three-phase 4-wire and 480V.

Installation method	Rated input voltage (Common terminals of a power supply and a measurement voltage input.)	Communications	Model	Size W×H×D (mm)
	3-phase 4-wire: 100 to 277 VAC (L-N), 173 to 480 VAC (L-L) 1-phase 2-wire: 100 to 277 VAC 1-phase 3-wire: 100 to 240 VAC (L-N), 200 to 480 VAC (L-L) 3-phase 3-wire: 1 phase grounded: 100 to 480 VAC (L-L) 3-phase 3-wire: ungrounded: 173 to 480 VAC (L-L)	EtherNet/IP™ Modus TCP	KM-PMBN- EIP	38×124×104
DIN Rail mounting	1-phase 2-wire: 100 to 277 VAC 1-phase 3-wire: 100 to 220 VAC (L-N), 200 to 440 VAC (L-L) 3-phase 3-wire: 173 to 277 VAC (L-L) 3-phase 4-wire (earthed neutral): 100 to 254 VAC (L-N), 173 to 440 VAC (L-L) 3-phase 4-wire (unearthed neutral): 100 to 120 VAC (L-N), 173 to 208 VAC (L-L)	RS-485 communications, pulse output	KM-N2-FLK	90×90×65

Installation method	Applicable phase wiring methods	Power supply voltage	Communications	Model	Size W×H×D (mm)
On-panel installation	Single-phase, 2-wire: 100 to 277 VAC Single-phase, 3-wire: 100 to 240 VAC (L-N), 200 to 480 VAC (L-L) Three-phase, 3-wire: 173 to 277 VAC (L-L) Three-phase, 4-wire (earthed neutral): 100 to 277 VAC (L-N), 173 to 480 VAC (L-L) Three-phase, 4-wire (unearthed neutral): 100 to 120 VAC (L-N), 173 to 208 VAC (L-L)	100 to 240 VAC Separate from measurement voltage	RS-485 communications, pulse output	KM-N3-FLK	96×96×64

For detailed information such as formats and options other than those listed, please refer to the catalog data sheet of each product.

Uninterruptible Power Supply (UPS) S8BA

Cat. No. U701

• DIN rail to provide an ideal countermeasure for momentary power losses and power failures in industrial computers (IPC) and controllers.



Integrated battery type

Input voltage	Output current/ capacity	Model	Size W×H×D)(mm)
	5 A/120 W	S8BA-24D24D120LF	94×100×100
041/00	10 A/240 W	S8BA-24D24D240LF	148×100×100
24 VDC	15 A/360 W	S8BA-24D24D360LF	270×100×100
	20 A/480 W*1	S8BA-24D24D480LF	270×100×100

^{*1.16.7} A/400 W for use as a UL compliant device.

Separated battery type: Control unit

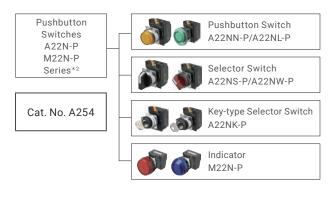
Input voltage	Output current/ capacity	Model	Size W×H×D)(mm)
24.VDC	20 A/480 W	S8BA-24D24D480SBF	44×124×120.9
24 VDC	40 A/960 W	S8BA-24D24D960SBF	52×124×120.9

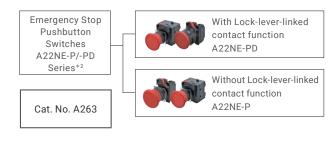
Separated battery type: Battery unit

Rated voltage	Rated capacity	UPS Model : Required units	Model	Size W×H×D (mm)
	3900 mAh	S8BA-24D24D480SBF	S8BA-S480L	80×124×120.9
25.2 VDC	7800 mAh	S8BA-24D24D480SBF	S8BA-S960L	150×124×120.9
	7000 IIIAII	S8BA-24D24D960SBF	30DA-3900L	150 \ 124 \ 120.9

Pushbutton Switches / Emergency Stop Pushbutton Switches A22N-P/A22NE-P

- · Pushbutton with Push-In Plus technology for easy wiring
- · Improved workability in wiring and installation
- Changes to the wiring direction and a shorter body provide freedom in the layout
- In a model equipped with Lock-lever-linked contact function, the improper installation of the Switch Unit can be detected.
- · Improved Workability in Wiring and Installation
- Pushbutton with Push-In Plus technology for easy wiring





st2. For detailed format specifications and inventory information, please refer to Catalog $\,$ or data sheet.

Temperature Controllers E5CC-B/E5EC-B/E5DC-B

Cat. No. H177

- · Large White PV Display That's Easier to Read.
- High-speed sampling at 50 ms.
- Easy to Use, from Model Selection to Setup and Operation.
- Push-In Plus technology for easy wiring.
- Easy connections to a PLC with programless communications.

 Use component communications to link Temperature Controllers to each other.



E5CC-B (48 ×48 mm)

0	A : 11:	D		Optio	ns				Size											
Control outputs	Auxiliary outputs	Power supply voltage	HB alarm and HS alarm	Communications	Event inputs	Remote SP Input	Transfer output	Model	W×H×D) (mm)											
			_	_	_	_	_	E5CC-RX2ABM-000												
			1	_	2	_	_	E5CC-RX2ABM-001												
		100 to 240 VAC	1	RS-485	_	_	_	E5CC-RX2ABM-002												
Control output 1:	2		_	RS-485	2	_	_	E5CC-RX2ABM-004												
Relay output			_	_	2	_	Provided.	E5CC-RX2ABM-006												
Control output 2:			_	_	_	_	_	E5CC-RX2DBM-000												
None			1	_	2	_	_	E5CC-RX2DBM-001												
		24 VAC/ DC	1	RS-485	_	_	_	E5CC-RX2DBM-002												
			_	RS-485	2	_	_	E5CC-RX2DBM-004												
			_	_	2	_	Provided.	E5CC-RX2DBM-006												
			_	_	_	_	_	E5CC-QX2ABM-000												
		100 to 240 VAC			1	_	2	_	_	E5CC-QX2ABM-001	48×48×									
					1	RS-485	_	_	_	E5CC-QX2ABM-002	67.4*1									
Control output 1 :					24 VAC/ DC		_	RS-485	2	_	_	E5CC-QX2ABM-004								
Voltage output	2					_	_	2	_	Provided.	E5CC-QX2ABM-006									
(for driving SSR) Control output 2:	2					24 VAC/ DC	24 VAC/ DC	24 VAC/ DC						_	_	_	_	_	E5CC-QX2DBM-000	
None																		1	_	2
									1	RS-485	_	_	_	E5CC-QX2DBM-002						
							_	RS-485	2	_	_	E5CC-QX2DBM-004								
Control output 1 :			_	_	2	_	Provided.	E5CC-QX2DBM-006												
		100 to 240 VAC	_	_	_	_	_	E5CC-CX2ABM-000												
Linear current	2	100 to 240 VAC	_	RS-485	2	_	_	E5CC-CX2ABM-004												
output Control output 2 : None	2	24 VAC/ DC	_	_	_	_	_	E5CC-CX2DBM-000												

^{*1.}The depth is the size under the neck.

For detailed information such as formats and options other than those listed, please refer to the catalog data sheet of each product.

E5EC-B (48 ×96 mm)

	Auxiliary	Power supply		Optio	ons				Size
Control outputs	outputs	voltage	HB alarm and	Communications	Event	Remote	Transfer	Model	$W \times H \times D$
	outputs	voitage	HS alarm	Communications	inputs	SP Input	output		(mm)
			_	_	_	_	_	E5EC-RX2ABM-000	
		100 to 240 VAC	1	RS-485	2	_	_	E5EC-RX2ABM-008	
Control output 1:	2	100 to 240 VAC	1	_	4	_	_	E5EC-RX2ABM-010	
Relay output			1	_	6	Provided.	Provided.	E5EC-RX2ABM-011	
Control output 2:		24 VAC/ DC	_	_	_	_	_	E5EC-RX2DBM-000	
None			_	_	_	_	_	E5EC-RX4ABM-000	
	4	100 to 240 VAC	1	RS-485	2	_	_	E5EC-RX4ABM-008	
			1	_	4	_	_	E5EC-RX4ABM-010	
		100 to 240 VAC	_	_	_	_	_	E5EC-QX2ABM-000	
			1	RS-485	2	_	_	E5EC-QX2ABM-008	
Control output 1:	2	100 to 240 VAC	1	_	4	_	_	E5EC-QX2ABM-010	48×96×
Voltage output (for driving SSR)			1	_	6	Provided.	Provided.	E5EC-QX2ABM-011	67.4
Control output 2:		24 VAC/ DC	_			E5EC-QX2DBM-000			
None			_	_	_	_	_	E5EC-QX4ABM-000	
	4	100 to 240 VAC	1	RS-485	2	_	_	E5EC-QX4ABM-008	
			1	_	4	_	_	E5EC-QX4ABM-010	
		100+- 040 1/40	_	_	_	_	_	E5EC-CX2ABM-000	
Control output 1:	2	100 to 240 VAC	_	RS-485	2	_	_	E5EC-CX2ABM-004	
Linear current		24 VAC/ DC	_	_	_	_	_	E5EC-CX2DBM-000	
output Control output 2 :		100 to 240 VAC	_	_	_	_	_	E5EC-CX4ABM-000	
None None	4	100 to 240 VAC	_	RS-485	2	_	_	E5EC-CX4ABM-004	
		24 VAC/ DC	_	_	_	_	_	E5EC-CX4DBM-000	

$E5DC\text{-}B \hspace{0.2cm} \textbf{(22.5 mm Wide, and DIN Track-mounting Type)} \\$

	Auxiliary	Power supply		Optio	ons				Size
Control outputs	outputs	voltage	HB alarm and HS alarm	Communications	Event inputs	Remote SP Input	Transfer output	Model	W×H×D) (mm)
		100 to 240 VAC	_	RS-485	_	_	_	E5DC-RX0ABM-015	
Control output 1:	_	24 VAC/ DC	_	RS-485	_	_	_	E5DC-RX0DBM-015	
Relay output		100+- 040 1/40	_	_	_	_	_	E5DC-RX2ABM-000	
Control output 2:	0	100 to 240 VAC	1	RS-485	_	_	_	E5DC-RX2ABM-002	
None	2	04.1/4.07.00	_	_	_	_	_	E5DC-RX2DBM-000	
		24 VAC/ DC	1	RS-485	_	_	_	E5DC-RX2DBM-002	
		100 to 240 VAC	_	RS-485	_	_	_	E5DC-QX0ABM-015	
Control output 1 :	_	24 VAC/ DC	_	RS-485	_	_	_	E5DC-QX0DBM-015	
Voltage output		100 to 240 VAC	_	_	_	_	_	E5DC-QX2ABM-000	00.51/04
(for driving SSR) Control output 2:	2		1	RS-485	_	_	_	E5DC-QX2ABM-002	22.5×96 ×90*1
None			041/40/50	_	_	_	_	_	E5DC-QX2DBM-000
		Z4 VAC/ DC	1	RS-485	_	_	_	E5DC-QX2DBM-002	
		100 to 240 VAC	_	RS-485	_	_	_	E5DC-CX0ABM-015	
Control output 1:	_	24 VAC/ DC	_	RS-485	_	_	_	E5DC-CX0DBM-015	
Linear current		100 to 240 VAC	_	_	_	_	_	E5DC-CX2ABM-000	
output		100 to 240 VAC	1	RS-485	_	_	_	E5DC-CX2ABM-002	
Control output 2:	2		_	_	_	_	_	E5DC-CX2DBM-000	
None		24 VAC/ DC	1	RS-485	_	_	_	E5DC-CX2DBM-002	

^{*1.}The depth is the size under the neck.

Table of applicable wires for control panel solution products and recommended products

_																	
Reco	mm	ende	d ferrule	es and													
appli	cabl	e wir	es(1)														
3. P P 3.							ommon to K-S/S8VK- S8AS2			S03024 S06024		3VK- 2024		3VK- 4024		3VK- 8024	Common to S8VK-S24024/ S48024
						Wire diamet	pplicable termina ter	PE	Input side	Output side	Input	Output side	Input side	Output side	Input	Output side	Undervoltage detection output
				ma ma ?	MIN		0.34	0.5	0.34	0.75	0.5	2	0.75	4	0.25		
Wire dia			commended ferr	ules	mm ²	MAX	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	6	2.5	
		Stripping length	Manufactured	Manufactured	Manufactured		MIN		22	20	22	18	20		18	12	24
mm ²	AWG	(Unit:mm)	by Phoenix Contact	by Weidmuller	by Wago	AWG	MAX	14	14	14	14	14	14	14	14	10	14
0.14	26	10	AI0,14-8	H0.14/12	-												
		10	AI0,25-8	H0.25/12	216-301												0
0.25	24	12	AI0,25-10	_	-												0
		14	AI0,25-12	-	-												
		10	AI0,34-8	H0.34/12	216-302				0		0						0
0.34	22	12	AI0,34-10	_	-				0		0						0
		14	AI0,34-12	-	-												
		10	AI0,5-8	H0.5/14	216-201				0	0	0		0				0
0.5	20	12	AI0,5-10	H0.5/16	216-241				0	0	0		0				0
		14	AI0,5-12	_	216-261												
		10	AI0,75-8	H0.75/14	216-202				0	0	0	0	0		0		0
0.75	18	12	AI0,75-10	H0.75/16	216-242				0	0	0	0	0		0		0
		14	AI0,75-12	H0.75/18	216-262												
		10	AI1-8	H1.0/14	216-203				0	0	0	0	0		0		0
1/1.25	18/17	12	AI1-10	H1.0/16	216-243				0	0	0	0	0		0		0
		14	AI1-12	H1.0/18	216-263												
		10	AI1,5-8	H1.5/14	216-204				0	0	0	0	0		0		0
1.25/1.5	17/16	12	AI1,5-10	H1.5/16	216-244				0	0	0	0	0		0		0
		14	AI1,5-12	H1.5/18D	216-264												
0/0 F	1.4	12	AI2,5-10	H2.5/16DS	216-246		0		0	0	0	0	0	0	0		0
2/2.5	14	14	AI2,5-12	H2.5/19D	216-266												
3.5/4	12	14	Al4-12	H4.0/20D	216-267											0	
6	10	16	Al6-12	H6.0/20	216-208											0	
6	10	21	AI 6-18	H6.0/26DS	FE-6.0-18N-YE												
10	8	21	AI10-18	H10.0/28	216-289												

Note :Some models may use ferrules without an insulation sleeve. For details, please check the data sheet for each product.

Recommended crimp tool

Pho	enix Contact	Wei	dmuller	Wago			
Name / Model	Applicable wire diameter	Name / Model	Applicable wire diameter	Name / Model	Applicable wire diameter		
CRIMPFOX 6 CRIMPFOX 6T-F CRIMPFOX 10S CRIMPFOX 25R	0.25~6 mm²/AWG24-10 0.25~6 mm²/AWG24-10 0.14~10 mm²/AWG25-7 10~25 mm²/AWG8-4	PZ 6 roto PZ 16	0.14~6 mm ² 6~16 mm ²	Variocrimp 4, 206-1204 Variocrimp 16 206-225, 206-1225	0.25~4 mm²/AWG24-12 6-16 mm²/AWG10-6 10,16,22,25 mm²		

			Prod	uct cat	egory/M	lodel														
Pov	wer Supp	oly														٨	loise Filter		DC Electronic	
	3VK- 24024		3VK- 48024		8VK- 96024		′K-WA	Common to S8VK-W	S8	AS2-240)24	S8	AS2-480)24	Common to S8AS2	Common to S8V-NF	S8V- NFS203	S8V- NFS206	S8V-CI	
Input side	Output side	Input	Output side	Input side	Output side	Input side	Output side	Signal Output / COM	Input	Output side	СОМ	Input	Output side	СОМ	Signal Output	PE	Input side	Output side	All terminals (Excluding Power input)	Power
0.34	2	0.5	4	0.75	10	2	6	0.25	0.5	0.5	2	0.75	0.5	4	0.25	2	0.5	0.75	0.25	0.25
2.5	2.5	2.5	6	2.5	10	2.5	10	2.5	2.5	2.5	4	2.5	2.5	4	2.5	2.5	2.5	2.5	2.5	6
22		20	12	18		14	10	24	20	20	14	18	20		24		20	18	24	24
14	14	14	10	14	8	14	8	14	14	14	12	14	14	12	14	14	14	14	14	10
								0							0				0	0
								0							0				0	0
0								0							0				0	0
0								0							0				0	0
0		0						0	0	0			0		0		0		0	0
0		0						0	0	0			0		0		0		0	0
0		0		0				0	0	0		0	0		0		0	0	0	0
0		0		0				0	0	0		0	0		0		0	0	0	0
0		0		0				0	0	0		0	0		0		0	0	0	0
0		0		0				0	0	0		0	0		0		0	0	0	0
0		0		0				0	0	0		0	0		0		0	0	0	0
0		0		0				0	0	0		0	0		0		0	0	0	0
0	0	0		0				0	0	0	0	0	0		0	0	0	0	0	0
			0			0					0			0						0
			0																	0
							0													
					0		0													

Recommended Flat-blade screwdriver

Phoenix Contact	Weidmuller	Wago	Wera	Wiha	Facom	Vessel
SZS 0,4×2,5 SZF 0-0,4×2,5 *1	SDIS 0.4×2.5×75	210-719	ESD 0,40 x 2,5	0.4×2.5×75 302	AEF.2,5×75	9900 (-2.5×75)

 $[\]pm$ 1. OMRON's exclusive purchase XW4Z-00B is available to order as SZF 0-0,4 \times 2,5 (manufactured by Phoenix Contact).

For the DC output terminal of S8VK-WA96024, use the following flat-blade screwdriver.

Phoenix Contact	Weidmuller	STANLEY	Wera	Wiha	Facom	Vessel
SZF 2-0,8×4,0	SDS 0.8×4.0×100	1-65-017	ESD 0,80×4,0	302S4010	AEF.4×75	990 (-4×100)

Recon	nmer	nded	ferrules	and app	licable				
wires	2							Low Voltage Sw	itching Gears
						J ⁷	7KC、J7T	C、J7KCA	J7MC
							plicable	All terminals	All terminals
						wife diameter			
						mm²	MIN	0.5	0.5
Wire diar	meter	Stripping		Recommended fe	errules		MAX	2	4
	AWG	length	Manufactured by Phoenix	Manufactured	Manufactured by	AWG	MIN	20	20
mm²	AWG	(Unit:mm)	Contact	by Weidmuller	Wago	AWG	MAX	14	12
0.14	26	10	AI0,14-8	H0.14/12	_				
		10	AI0,25-8	H0.25/12	216-301				
0.25	24	12	AI0,25-10	-	_				
		14	AI0,25-12	_	_				
		10	AI0,34-8	H0.34/12	216-302				
0.34	22	12	AI0,34-10	-	_				
		14	AI0,34-12	_	_				
		10	AI0,5-8	H0.5/14	216-201		0)	0
0.5	20	12	AI0,5-10	H0.5/16	216-241		0)	
		14	AI0,5-12	-	216-261				
		10	AI0,75-8	H0.75/14	216-202		0)	0
0.75	18	12	AI0,75-10	H0.75/16	216-242		О)	
		14	AI0,75-12	H0.75/18	216-262				0
		10	AI1-8	H1.0/14	216-203		0)	0
1/1.25	18/17	12	AI1-10	H1.0/16	216-243		0)	
		14	AI1-12	H1.0/18	216-263				0
		10	AI1,5-8	H1.5/14	216-204		С		0
1.25/1.5	17/16	12	AI1,5-10	H1.5/16	216-244		0)	
		14	AI1,5-12	H1.5/18D	216-264				0
2/2.5	14	12	AI2,5-10	H2.5/16DS	216-246		Δ	*1	
2/2.5	14	14	AI2,5-12	H2.5/19D	216-266				0
3.5/4	12	14	AI4-12	H4.0/20D	216-267				0
6	10	16	AI6-12	H6.0/20	216-208				
10	8	21	AI10-18	H10.0/28	216-289				

Note :Some models may use ferrules without an insulation sleeve. For details, please check the data sheet for each product.

Recommended crimp tool

Pho	enix Contact	Wei	dmuller	Wago			
Name / Model	Applicable wire diameter	Name / Model	Applicable wire diameter	Name / Model	Applicable wire diameter		
CRIMPFOX 6 CRIMPFOX 6T-F CRIMPFOX 10S CRIMPFOX 25R	0.25~6 mm²/AWG24-10 0.25~6 mm²/AWG24-10 0.14~10 mm²/AWG25-7 10~25 mm²/AWG8-4	PZ 6 roto PZ 16	0.14~6 mm ² 6~16 mm ²	Variocrimp 4, 206-1204 Variocrimp 16 206-225, 206-1225	0.25~4 mm²/AWG24-12 6-16 mm²/AWG10-6 10,16,22,25 mm²		

^{*1}. Wide Muller-made ferrules cannot be used.

Product	category/Model				
Sockets for Re		Sockets for Relays with Forcibly Guided Contacts	Slim I/O Relays	Terminal Relays	I/O Relay Terminals
PYF-□-PU P2RF-□-PU	PTF-□-PU	P7SA	G2RV-ST500 G3RV- ST500□	G6D-F4PU、G3DZ-F4PU	G70V
All terminals	All terminals	All terminals	All terminals	All terminals	All terminals (Excluding communication connector)
0.25	0.25	0.5	0.25	0.25	0.25
1.5	2.5	1.5	2.5	2.5	2.5
24	24	20	24	24	24
16 14		16	14	14	14
0	0		0	0	0
0	0		0	0	0
0	0		0	0	0
0	0		0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
	_	_	_	_	
0	0	0	0	0	0
0	0	0	0	0	0
0					
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
	0		0	0	0
	0			0	0
				-	
L.	I	1			

Recommended Flat-blade screwdriver

Phoenix Contact	Weidmuller	Wago	Wera	Wiha	Facom	Vessel
SZS 0,4×2,5 SZF 0-0,4×2,5 *2	SDIS 0.4×2.5×75	210-719	ESD 0,40 x 2,5	0.4×2.5×75 302	AEF.2,5×75	9900 (-2.5×75)

 $[\]pm$ 2. OMRON's exclusive purchase XW4Z-00B is available to order as SZF 0-0,4 \times 2,5 (manufactured by Phoenix Contact).

Recommended ferrules and applicable wires ③

Manufactured

by Phoenix

Contact

AI0,14-8

AI0,25-8

AI0,25-10 AI0,25-12

AI0,34-8

AI0,34-10

AI0,34-12

AI0,5-8

AI0,5-10

AI0,5-12

AI0,75-8

AI0,75-10

AI0,75-12

AI1-8

AI1-10

AI1-12

AI1,5-8

AI1,5-10

AI1,5-12

AI2,5-10

AI2,5-12

AI4-12

AI6-12

AI10-18

Wire diameter

 mm^2

0.14

0.25

0.34

0.5

0.75

1/1.25

1.25/1.5

2/2.5

3.5/4

6

10

AWG

26

24

22

20

18

18/17

17/16

14

12

10

8

Stripping

length

(Unit:mm)

10

10

12

10

12

14

10

12

10

12

10

12

14

10

12

14

12

14

16

21

П										
			DIN T	rack Terminal Blocks						
	XW	5□-P1.5		XW5□-P2.5-□	XW5□-P4.0-□					
	Ap	plicable								
	termina		All terminals	All terminals	All terminals					
	Wire diameter									
		MIN	0.14	0.14	0.25					
	mm²	MAX	0.14 1.25	2.5	4					
		MIN	26	2.5	24					
	AWG									
		MAX	18	14	12					
		0		0						
_		0		0						
		0		0	_					
4					0					
-		0		0						
+		0		0						
-	_				0					
+	0									
+	0				0					
+				0						
+	0			0						
+					0					
1	0			0						
1	0			0						
	-				0					
				0						
				0						
					0					
Ī				0						
					0					
					0					

Note :Some models may use ferrules without an insulation sleeve. For details, please check the data sheet for each product.

Recommended ferrules

Manufactured by

Wago

216-301

216-302

216-201

216-241

216-261

216-202

216-242

216-262

216-203

216-243

216-263

216-204

216-244

216-264

216-246

216-266

216-267

216-208

216-289

Manufactured

by Weidmuller

H0.14/12

H0.25/12

H0.34/12

H0.5/14

H0.5/16

H0.75/14

H0.75/16

H0.75/18

H1.0/14

H1.0/16

H1.0/18

H1.5/14

H1.5/16

H1.5/18D

H2.5/16DS

H2.5/19D

H4.0/20D

H6.0/20

H10.0/28

Recommended crimp tool

Pho	enix Contact	Weidmuller		Wago		
Name / Model	Applicable wire diameter	Name / Model	Applicable wire diameter	Name / Model	Applicable wire diameter	
CRIMPFOX 6 CRIMPFOX 6T-F CRIMPFOX 10S CRIMPFOX 25R	0.25~6 mm²/AWG24-10 0.25~6 mm²/AWG24-10 0.14~10 mm²/AWG25-7 10~25 mm²/AWG8-4	PZ 6 roto PZ 16	0.14~6 mm ² 6~16 mm ²	Variocrimp 4, 206-1204 Variocrimp 16 206-225, 206-1225	0.25~4 mm²/AWG24-12 6-16 mm²/AWG10-6 10,16,22,25 mm²	

Product categ	jory/Model							
Common Terminal Blocks Ultra-Compact Interface Wiring System			Timers, Digital Temperature Controllers, Pushbutton Switches, Solid State Relays for Heater, Component Protective Components	Power Monitors				
XW6T-COM1.5	XW6T-COM2.5	XW2K	H3DT、E5□C-B、E5□D-B		KM-N3	KM-PM		
All terminals	All terminals	All terminals	All terminals (input terminals for G3PJ)	Power supply	Pulse output / RS-485	Voltage input terminals	Current input terminals	
0.14	0.14	0.14	0.25	0.5	0.25	0.2	0.2	
0.75	2.5	0.5	1.5	1.5	1.5	4	1.5	
26	26	26	24	20	24	24	24	
18	14	20	16	16	16	12	16	
0	0	0						
0	0	0	0		0			
0	0	0	0		0		0	
						0		
0	0	0	0		0			
0	0	0	0		0	_	0	
	_					0		
0	0	0	0	0	0			
0	0	0	0	0	0		0	
0					0	0		
0	0		0	0	0		0	
					0	0		
	0		0	0	0			
	0		0	0	0		0	
					<u> </u>	0		
	0		0	0	0			
	0		0	0	0		0	
						0		
	0							
						0		
						0		

Recommended Flat-blade screwdriver

Phoenix Contact	Weidmuller	Wago	Wera	Wiha	Facom	Vessel
SZS 0,4×2,5 SZF 0-0,4×2,5 *1	SDIS 0.4×2.5× 75	210-719	ESD 0,40 x 2,5	0.4×2.5×75 302	AEF.2,5×75	9900 (-2.5×75)

^{*1.} OMRON's exclusive purchase XW4Z-00B is available to order as SZF 0-0,4×2,5 (manufactured by Phoenix Contact).

OMRON's Products Suppot IoT for Control Panels and Production Lines



Advanced Motor Condition Monitoring Device K7DD

Cat. No. N235-E1



Heater Condition Monitoring Device K7TM

Cat. No. N229-E1



Insulation Resistance Monitoring Device K7GE

Cat. No. N226-E1



Panel condition monitoring device K6PM

Cat. No. H232-E1



Motor Condition Monitoring Devices K6CM

Cat. No. N220-E1

2019 Released in October



Switch Mode Power Supplies S8VK-X

Cat. No. T211-E1



Digital Temperature Controllers E5□D/NX-TC

Cat. No. H222-E1

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