

Sockets with Push-In Plus technology

PYF-□□-PU/PTF-□□-PU/P2RF-□□-PU

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



- Sockets with Push-In Plus technology are used to save wiring work in comparison with traditional screw terminals. (Wiring time is reduced by 60%* in comparison with traditional screw terminals.)
- No screw loosening means maintenance-free application.
- Light insertion force and strong pull-out strength to achieve both less wiring work and high reliability.
- 'Hand-free' structure that holds an inserted screwdriver to achieve easier wiring work for stranded wires.
- Two wires can be independently inserted into each terminal hole.
- DIN Track mounting or screw mounting.

* According to OMRON actual measurement data from November 2015.

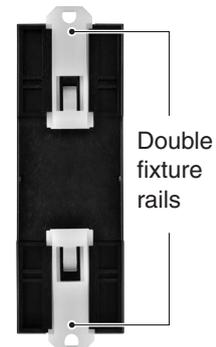
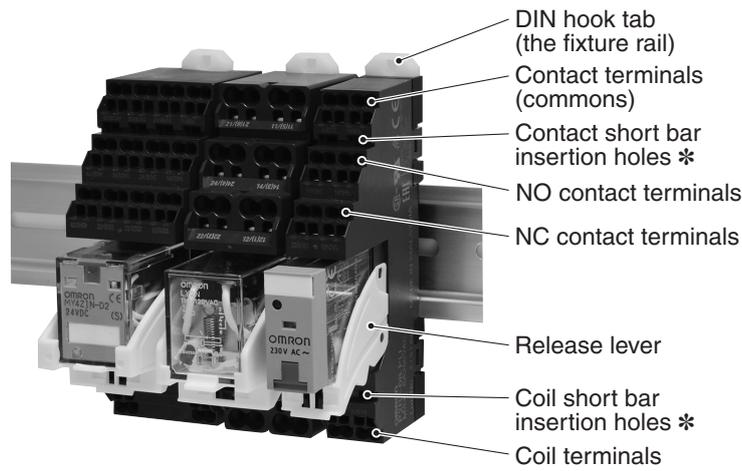


For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Refer to *Safety Precautions* on page 10.

Features

- Coil terminals and contact terminals are completely separated in an organized wiring layout.
- A Release Lever is provided as a standard feature. (except -L models)
- DIN terminal numbers are indicated.
- The double fixture rail with DIN hook tabs attached to the top and bottom lets you mount the Socket from either the top or bottom.
- One-touch Installation onto DIN-track.
- Front-in short bar enables easy installation without interference in duct when wiring.
- Please refer short bar correspondence table in page 9 for further information of short bar.
- There are screw mounting holes in the DIN hooks on the PYF-□□-PU, PTF-□□-PU and P2RF-□□-PU. Pull out the DIN hook tabs to mount the Sockets with screws.



The fixture rails can be pulled out to mount the Relays with screws.



Back of Push-In Plus Terminal Block Socket

* The PTF-□□-PU Sockets do not have short bar insertion holes.

PYF-□□-PU/PTF-□□-PU/P2RF-□□-PU

Ordering Information

Sockets

PYF Series

Applicable model (typical example)			No. of poles	Socket
				Model *
General Purpose Relays	MY Series	MY2□ MY2IN(S)	2	PYF-08-PU
		MY4□ MY4H MYQ4□ MY4□(S) MY2K	4	PYF-14-PU
SSR	G3FM Series	G3FM	1	PYF-08-PU
	G3F/G3FD Series	G3F G3FD		
Timers	H3Y Series	H3Y(N)-2-B	2	PYF-08-PU-L
	H3YN Series	H3Y(N)-4-B	4	PYF-14-PU-L

* The PYF-□□-PU-L Sockets do not have release levers.

PTF Series

Applicable model (typical example)			No. of poles	Socket
				Model *
General Purpose Relays	LY Series	LY2□	2	PTF-08-PU
		LY2□-CR		PTF-08-PU-L
		LY4□	4	PTF-14-PU-L
SSR	G3H Series	G3H G3HD	1	PTF-08-PU
	G9H Series Note: Hybrid Power Relay	G9H		
Temperature Controller	E5L	E5L-A □ E5L-C □	---	PTF-14-PU-L

* The PTF-□□-PU-L Sockets do not have release levers.

P2RF Series

Applicable model (typical example)			No. of poles	Socket
				Model
General Purpose Relays	G2R-□-S (S) Series	G2R-1-S (S)	1	P2RF-05-PU
SSR	G3R-I/O Series	G3R		
	G3RZ Series	G3RZ		
Timers	H3RN Series	H3RN-1-B	2	P2RF-08-PU
General Purpose Relays	G2R-□-S (S) Series	G2R-2-S (S)		
Timers	H3RN Series	H3RN-2-B		
Liquid Leakage Sensors	K7L Series	K7L-□B	---	

Accessories (Order Separately)

Short Bars

Pitch	Applicable models	No. of poles	Colors	Model #	Minimum order (quantity)
7.75 mm	PYF-□□-PU and P2RF-□□-PU	2	Red (R) Blue (S) Yellow (Y)	PYDN-7.75-020□	10
		3		PYDN-7.75-030□	
		4		PYDN-7.75-040□	
		20		PYDN-7.75-200□	
15.5 mm	P2RF-□□-PU	8		PYDN-15.5-080□	
31.0 mm	PYF-□□-PU	8	PYDN-31.0-080□		

Note: Use the Short Bars for crossover wiring within one Socket or between Sockets.

* Replace the box (□) in the model number with the code for the covering color.

Labels

Applicable models	Model	Manufacturer	Minimum order (Box) (quantity per Box)
PYF-□□-PU/ PTF-□□-PU/ P2RF-□□-PU	MG-CPM-04 41390N	Cembre	1,680 (35 sheet/48 pieces)

Note: PRINTER: MARKINGENIUS MG3 (Ask to your Omron contact for more details on printers)

Hold-down Clip

Applicable models (Combinations)	Model	Minimum order (quantity)
PYF-08-PU-L H3Y(N)-2-B	Y92H-3	10
PYF-14-PU-L H3Y(N)-4-B		
PTF-08-PU-L LY2□-CR		
PTF-14-PU-L LY4□	PYC-A1	100
PTF-14-PU-L E5L	Y92H-10 *	1

* Included with the E5L unit.

If you lose or damage the hold-down clip (Y92H-10), order it separately.

Parts for DIN Track Mounting

Type	Model	Minimum order (quantity)
DIN Tracks	1 m	1
	0.5 m	
End Plate *	PFP-M	10
Spacer	PFP-S	

* When mounting DIN rail, please use End Plate (Model PFP-M).

PYF-□□-PU/PTF-□□-PU/P2RF-□□-PU

Ratings/Characteristics

Characteristics

Sockets

PYF-□□-PU(-L)

Item	Model	PYF-08-PU (-L)	PYF-14-PU (-L)
Ambient operating temperature		-40 to 70°C	
Ambient operating humidity		5 to 85%	
Continuous carry current *		10 A	6 A
Dielectric strength	Between contact terminals of same polarity	2,000 VAC, 1 min	2,000 VAC, 1 min
	Between contact terminals of different polarity	2,000 VAC, 1 min	2,000 VAC, 1 min
	Between coil and contact terminals	2,000 VAC, 1 min	2,000 VAC, 1 min
Insulation resistance		1,000 MΩ min. (at 500 VDC)	
Weight (approx.)		80 g	87 g

* The continuous carry current of 10 A for PYF-08-PU(-L) is for an ambient temperature of 55°C. At an ambient temperature of 70°C, the value is 7 A.

PTF-□□-PU(-L)

Item	Model	PTF-08-PU (-L)	PTF-14-PU-L
Ambient operating temperature		-40 to 70°C	
Ambient operating humidity		5 to 85%	
Continuous carry current *		10 A	
Dielectric strength	Between contact terminals of same polarity	2,000 VAC, 1 min	2,000 VAC, 1 min
	Between contact terminals of different polarity	2,000 VAC, 1 min	2,000 VAC, 1 min
	Between coil and contact terminals	2,000 VAC, 1 min	2,000 VAC, 1 min
Insulation resistance		1,000 MΩ min. (at 500 VDC)	
Weight (approx.)		65 g	100 g

* The continuous carry current of 10 A for PTF-08-PU(-L) is for an ambient temperature of 55°C. At an ambient temperature of 70°C, the value is 7 A.

The continuous carry current of 10 A for PTF-14-PU-L is for an ambient temperature of 40°C. At an ambient temperature of 70°C, the value is 7 A.

P2RF-□□-PU

Item	Model	P2RF-05-PU	P2RF-08-PU
Ambient operating temperature		-40 to 70°C	
Ambient operating humidity		5 to 85%	
Continuous carry current *		10 A	6 A
Dielectric strength	Between contact terminals of same polarity	1,000 VAC, 1 min	1,000 VAC, 1 min
	Between contact terminals of different polarity	---	3,000 VAC, 1 min
	Between coil and contact terminals	4,000 VAC, 1 min	4,000 VAC, 1 min
Insulation resistance		1,000 MΩ min. (at 500 VDC)	
Weight (approx.)		40 g	45 g

* The continuous carry current of 10 A for P2RF-05-PU is for an ambient temperature of 55°C. At an ambient temperature of 70°C, the value is 7 A.

The continuous carry current of 6 A for P2RF-08-PU is for an ambient temperature of 55°C. At an ambient temperature of 70°C, the value is 5 A.

Accessories (Order Separately)

Short Bars

Application	Applicable sockets	Model	Maximum carry current	Ambient operating temperature	Ambient operating humidity
For Contact terminals (common)	PYF-08-PU(-L) PYF-14-PU(-L) P2RF-05-PU P2RF-08-PU	PYDN-7.75-020□	20 A	-40 to 70°C	5 to 85% Rh
		PYDN-7.75-030□			
		PYDN-7.75-040□			
		PYDN-7.75-200□			
For Coil terminals	P2RF-05-PU P2RF-08-PU	PYDN-15.5-080□	20 A	-40 to 70°C	5 to 85% Rh
		PYF-08-PU(-L) PYF-14-PU(-L)			

Approved Standards

CSA certification (File No. LR031928)

Model	Ratings	Class No.	Standard No.
PYF-08-PU PTF-08-PU P2RF-05-PU	10 A 250 V	3211 07	CSA C22.2 No14
PYF-14-PU	6A 250V *		
PTF-14-PU	10 A 250 V (Same polarity)		
P2RF-08-PU	6 A 250 V		

* When power is supplied to all four poles, use with a total power current that does not exceed 20 A.

UL standard certification (File No. E87929)

Model	Ratings	Standard No.	Category	Listed/ Recognized
PYF-08-PU PTF-08-PU P2RF-05-PU	10 A 250 V	UL508	SWIV2	Recognized
PYF-14-PU	6 A 250 V *			
PTF-14-PU	10 A 250 V (Same polarity)			
P2RF-08-PU	6 A 250 V			

* When power is supplied to all four poles, use with a total power current that does not exceed 20 A.

TÜV Rheinland certification

Model	Ratings	Standard No.	Certification No.
PYF-08-PU PTF-08-PU P2RF-05-PU	10 A 250 V *1	EN 61984	R50327595
PYF-14-PU	6 A 250 V		
PTF-14-PU	10 A 250 V *2		
P2RF-08-PU	6 A 250 V *3		

*1. Ratings are for an ambient temperature of 55°C. At an ambient temperature of 70°C, the value is 7 A.

*2. Ratings are for an ambient temperature of 40°C. At an ambient temperature of 70°C, the value is 7 A.

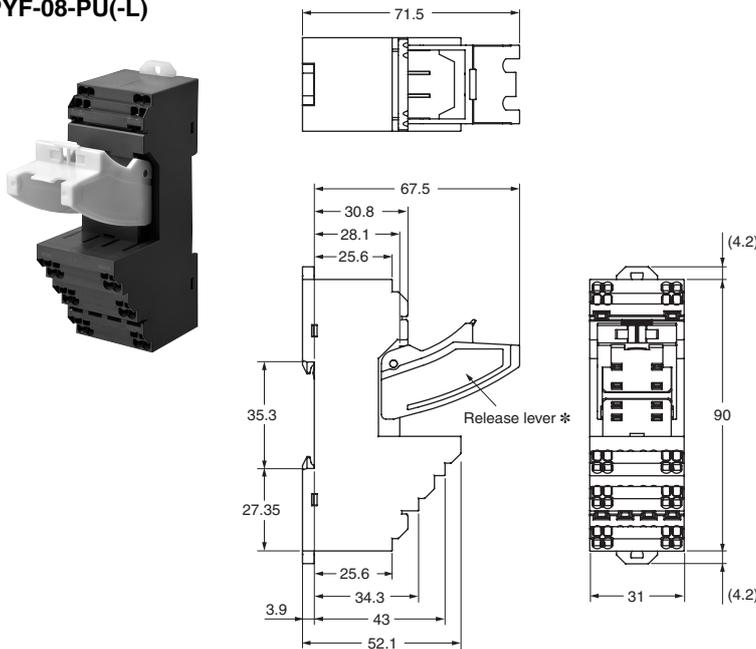
*3. Ratings are for an ambient temperature of 55°C. At an ambient temperature of 70°C, the value is 5 A.

Dimensions

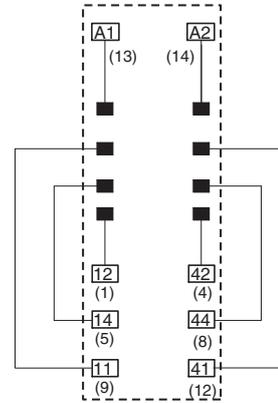
(Unit: mm)

Sockets

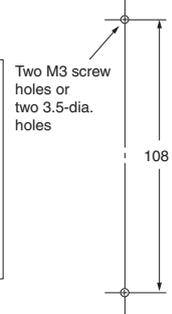
PYF-08-PU(-L)



Terminal Arrangement/
Internal Connection Diagram
(TOP VIEW)



Mounting Hole
Dimensions

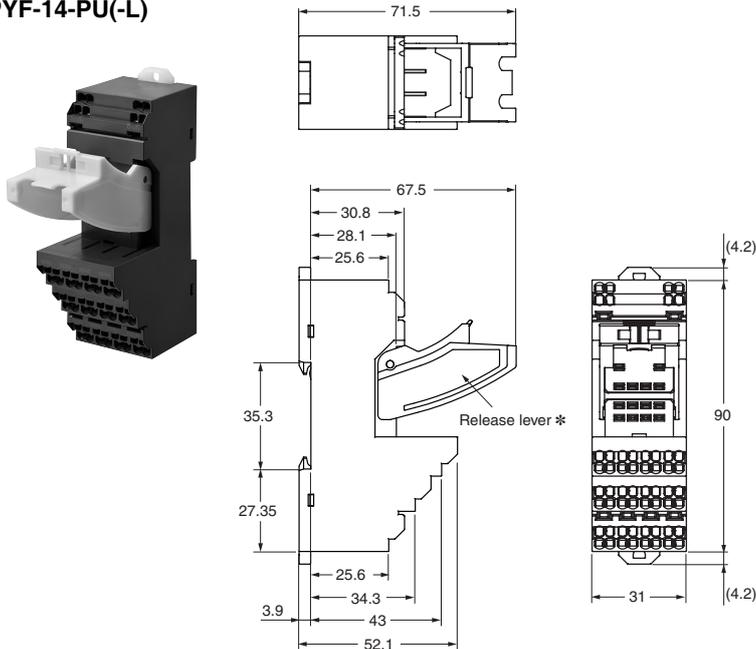


Note: The numbers in parentheses are traditionally used terminal numbers.

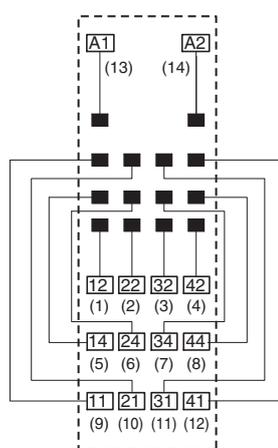
Note: Pull out the hooks to mount the Socket with screws.

* The PYF-08-PU-L Sockets do not have release levers.

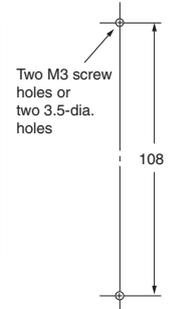
PYF-14-PU(-L)



Terminal Arrangement/
Internal Connection Diagram
(TOP VIEW)



Mounting Hole
Dimensions



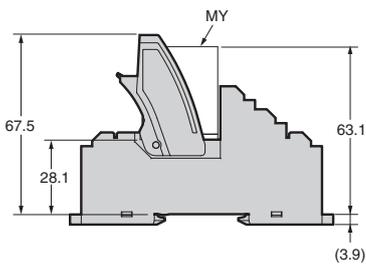
Note: The numbers in parentheses are traditionally used terminal numbers.

Note: Pull out the hooks to mount the Socket with screws.

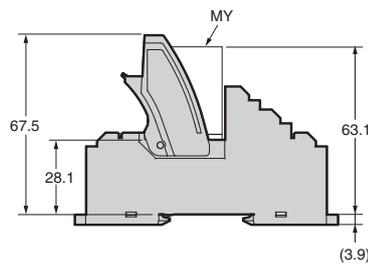
* The PYF-14-PU-L Sockets do not have release levers.

Mounting Heights

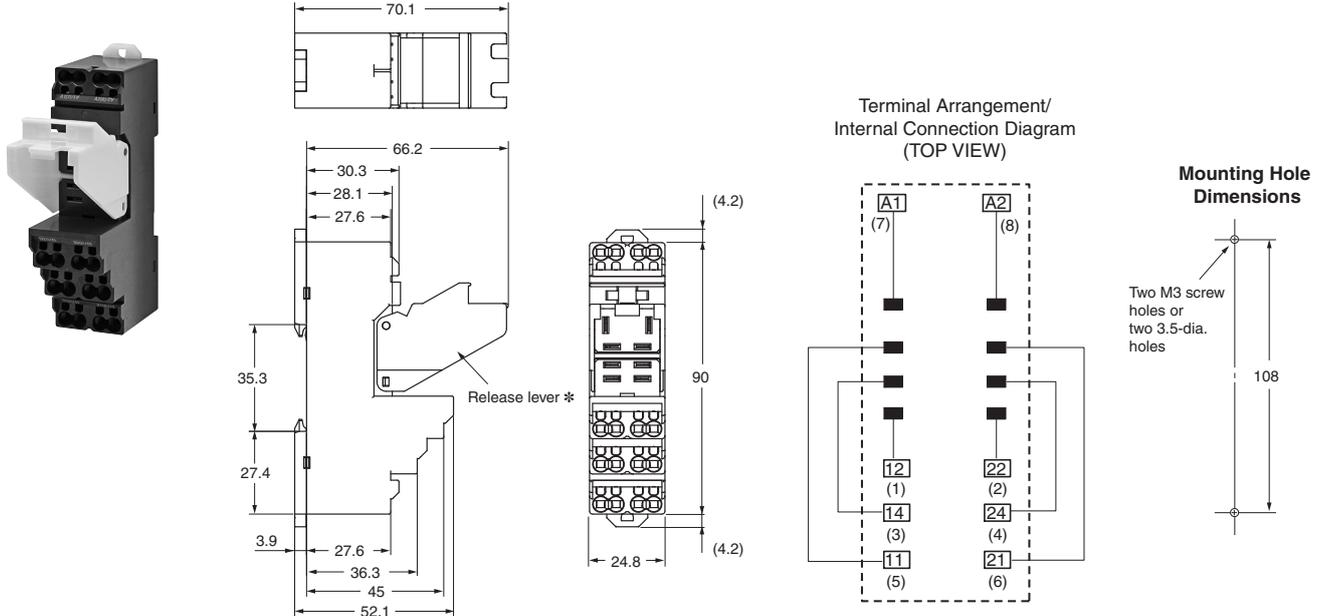
PYF-08-PU



PYF-14-PU



PTF-08-PU (-L)

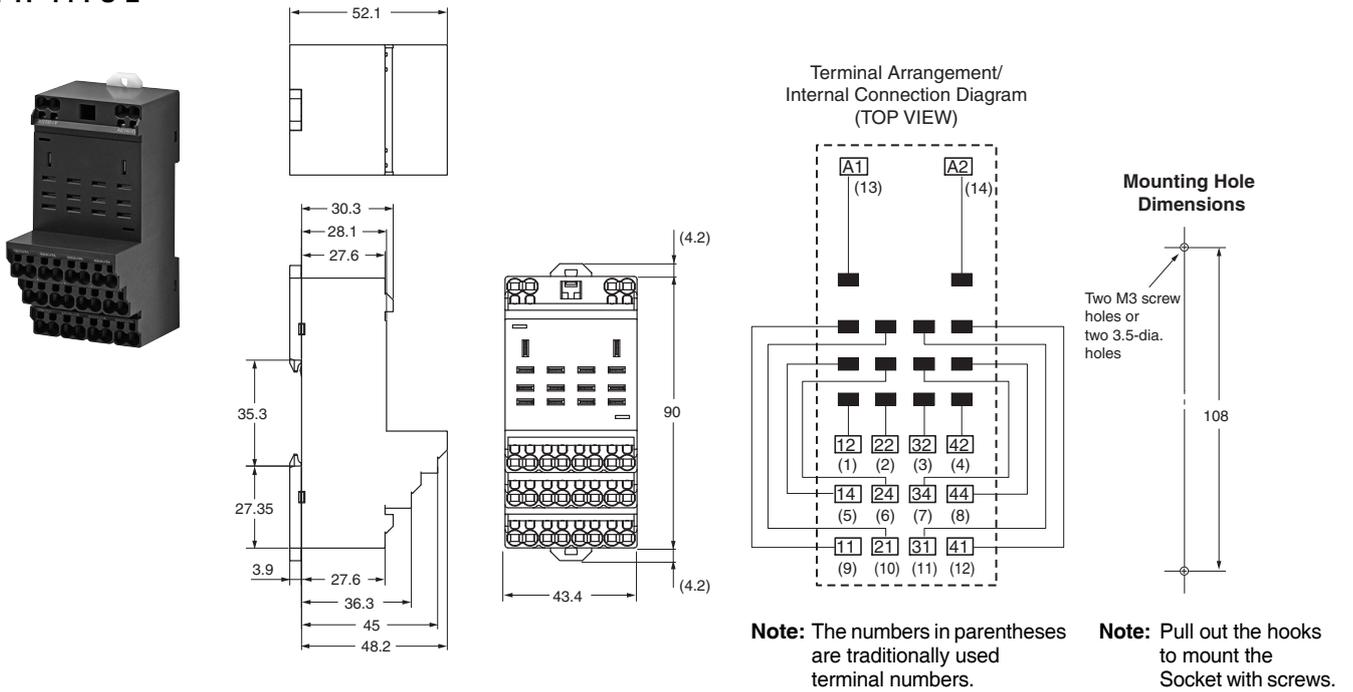


Note: When you apply a minimum of 10 A of current to an LY1 when it is used in combination with the PTF-08-PU(-L), connect each of the following terminal pairs: (1) to (2), (3) to (4), and (5) to (6).
 * The PTF-08-PU-L Sockets do not have release levers.

Note: The numbers in parentheses are traditionally used terminal numbers.

Note: Pull out the hooks to mount the Socket with screws.

PTF-14-PU-L

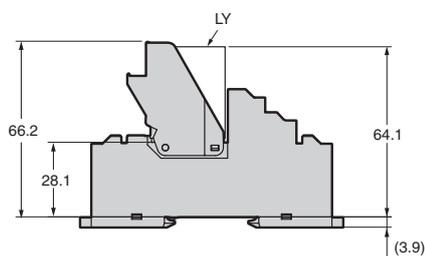


Note: The numbers in parentheses are traditionally used terminal numbers.

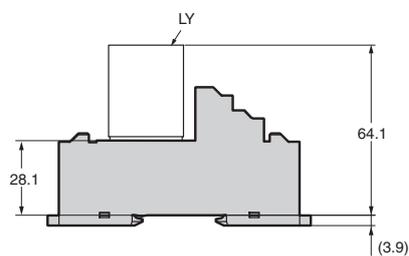
Note: Pull out the hooks to mount the Socket with screws.

Mounting Heights

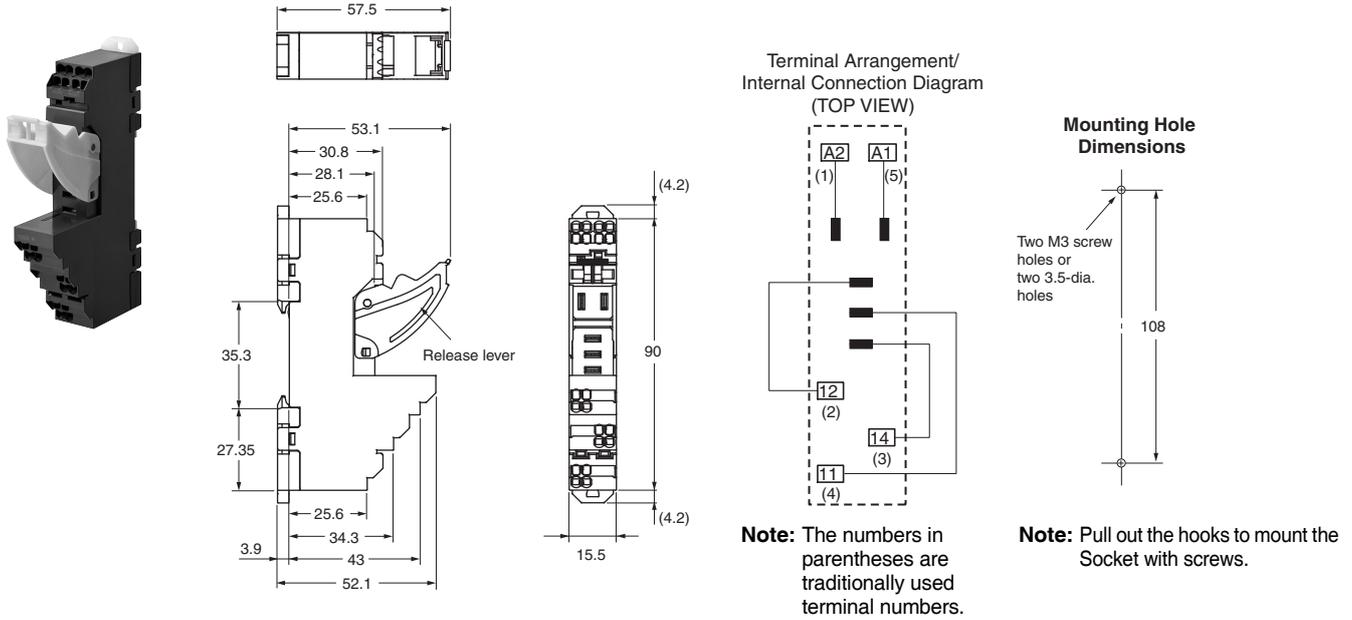
PTF-08-PU



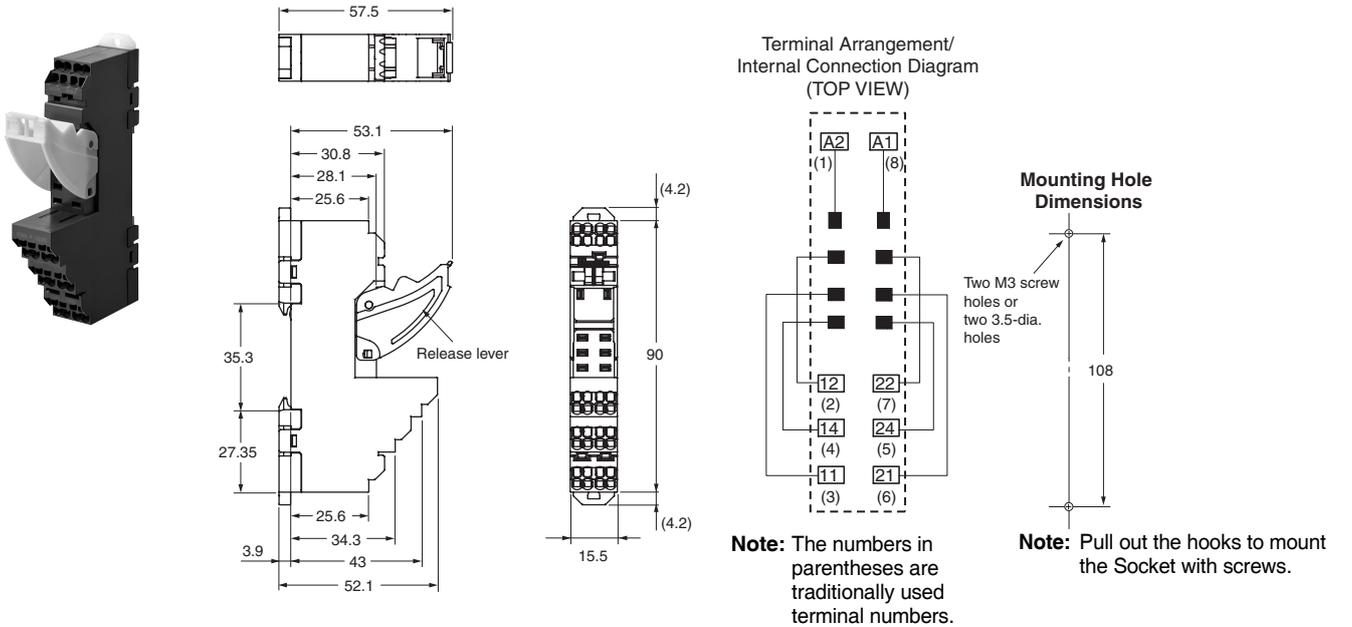
PTF-14-PU-L



P2RF-05-PU

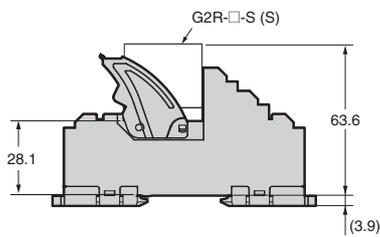


P2RF-08-PU

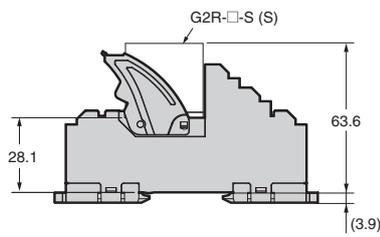


Mounting Heights

P2RF-05-PU



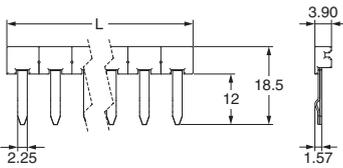
P2RF-08-PU



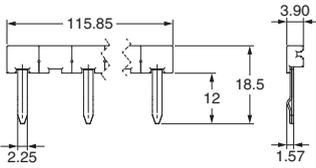
Accessories (Order Separately)

Short Bars

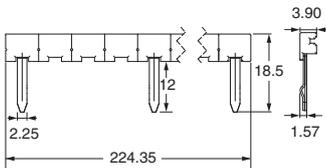
PYDN-7.75-□□ (7.75 mm)



PYDN-15.5-080□ (15.5mm)



PYDN-31.0-080□ (31mm)



Application	Pitch	Applicable sockets	No. of poles	L (Length)	Colors	Model *
For Contact terminals (common)	7.75 mm	PYF-□□-PU and P2RF-□□-PU	2	15.1	Red (R) Blue (S) Yellow (Y)	PYDN-7.75-020□
			3	22.85		PYDN-7.75-030□
			4	30.6		PYDN-7.75-040□
			20	154.6		PYDN-7.75-200□
For Coil terminals	15.5 mm	P2RF-□□-PU	8	115.85		PYDN-15.5-080□
	31 mm	PYF-□□-PU	8	224.35		PYDN-31.0-080□

Note: 1. Use the Short Bars for crossover wiring within one Socket or between Sockets.

2. When using short bar to coil terminals of P2RF-□□-PU, make sure to use PYDN-15.5-080□ (15.5 mm).

When using short bar to coil terminals of PYF-□□-PU (-L), make sure to use PYDN-31.0-080□ (31 mm).

* Replace the box (□) in the model number with the code for the covering color.

Parts for DIN Track Mounting

Refer to your OMRON website for details on the PFP-□.

Safety Precautions

Be sure to read the *Common Precautions for All Relays* in the website at the following URL:
<http://www.ia.omron.com/>.

Warning Indications

 WARNING	Indicates a potentially hazardous situation which, if not avoided, will result in minor or moderate injury, or may result in serious injury or death. Additionally there may be significant property damage.
Precautions for Safe Use	Supplementary comments on what to do or avoid doing, to use the product safely.
Precautions for Correct Use	Supplementary comments on what to do or avoid doing, to prevent failure to operate, malfunction, or undesirable effects on product performance.

Meaning of Product Safety Symbols

	Used to warn of the risk of electric shock under specific conditions.
---	---

⚠ WARNING

Make sure that the Socket does not have an electrical charge before you perform wiring or maintenance work. Electrical shock may occur.



Precautions for Safe Use

Transportation

- Do not use a Socket that has fallen to the floor or ground. The performance of a Socket that has been dropped may be reduced.
- Do not drop the Socket or subject it to abnormal vibration or shock during transportation or mounting. Doing so may result in deterioration of performance, malfunction, or failure.
- Do not transport a Socket when it is not packaged. Damage or failure may occur.

Operating and Storage Environments

- Do not use or store Sockets in the following locations. Doing so may result in deterioration of performance.
 - Locations subject to ambient storage temperatures outside the range -40 to 70°C
 - Locations subject to relative humidity outside the range 5% to 85%
 - Locations subject to high temperature or high humidity
 - Locations in which condensation may occur due to rapid changes in temperature
- Do not use or store Sockets in environments that contain silicone gas, sulfidizing gas (e.g., SO₂ or H₂S), or organic gas, or near materials that contain silicone. Doing so may cause the contacts to be unstable or to fail.
- Do not use a Socket in a location subject to ultraviolet light (such as a location subject to direct sunlight). Printing may fade, the Socket may rust or corrode, and plastic parts may deteriorate.
- Before you start wiring, make sure that the Socket is securely attached and mounted to a DIN Track. If the Socket is not stable, it may fall and possibly injure a worker.
- Insert the flat-blade screwdriver fully to the bottom of the release hole. If the flat-blade screwdriver is not inserted correctly, the wire may not be connected correctly.
- If there is lubrication, such as oil, on the tip of the flat-blade screwdriver, the flat-blade screwdriver may fall and possibly injure a worker.

- When crossover wiring by wire and short bar, make sure not to insert wrong position, it may cause short circuit, malfunction or failure.
- Avoid using or storing in a location where the unit will be subject to direct vibration or shock. Risk of failure, malfunctioning, or deterioration of performance.

Push-In Plus Terminal Blocks

- Do not wire anything to the release holes.
- Do not tilt or twist a flat-blade screwdriver while it is inserted into a release hole on the terminal block. The terminal block may be damaged.
- Insert a screwdriver into the release holes at an angle. The terminal block may be damaged if the flat-blade screwdriver is inserted straight in.
- Do not allow the flat-blade screwdriver to fall when you are holding it in a release hole.
- Do not bend a wire past its natural bending radius or pull on it with excessive force. Doing so may cause the wire disconnection.
- Do not insert more than one wire into each terminal insertion hole.
- If you use wire or a short-circuit bar for crossover wiring, take care that there are no incorrect insertions. Incorrect insertion may cause short-circuiting, malfunctioning, or failure.
- To prevent wire materials from smoking or igniting, confirm wire ratings and use the wiring materials given in the following table.

Model	Recommended wires	Stripping length
PYF-□□-PU/ P2RF-□□-PU	0.5 to 1.5 mm ² /AWG20 to AWG16	8 mm
PTF-□□-PU	0.5 to 2.5 mm ² /AWG20 to AWG14	

Disposal

- If you dispose of any Sockets, do not place them in a fire.

Precautions for Correct Use

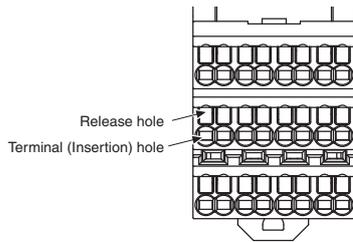
- Do not transport the Socket under the following conditions. Doing so may occasionally result in damage, malfunction, or deterioration of performance characteristics.
 - Locations subject to high temperature or high humidity
 - Locations subject to condensation due to rapid changes in temperature
- Do not use or store the Socket in the following locations. Doing so may occasionally result in damage, malfunction, or deterioration of performance characteristics.
 - Locations subject to shock or vibration
 - Conditions in which an external load may be applied
 - Locations subject to dust, salts, or iron, or locations where there is salt damage
- Do not use the Socket in a location where it may be subjected to solvents or alkali liquids.
- Do not insert short bar in the hole for wire or screw driver, it may cause the result of failure of pull out.
If insert short bar in the hole for wire or screw driver and try to pull out, it may cause damage for short bar or socket.
- Do not use or store in an atmosphere in which ambient silicon gas, sulfuric gas (SO₂, H₂S), or organic gas is present, or near material that contains silicon. This may cause unstable contact or contact failure.
- Do not use or store in a location where water, chemicals, solvents, oil, or other substances may spray or splash on the Socket. Risk of failure, malfunctioning, or deterioration of performance.
- Avoid using or storing in a location where the ambient temperature exceeds -40 to 70°C. Risk of failure, malfunctioning, or deterioration of performance.

Applying 10 A or More When Using an LY1 with the Following Sockets

When you use an LY1 in combination with the PTF-08-PU(-L) connect each of the following terminal pairs: (1) to (2), (3) to (4), and (5) to (6).

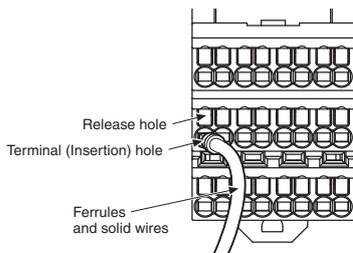
Push-In Plus Terminal Blocks

1. Connecting Wires to the Push-In Plus Terminal Block
Part Names of the Terminal Block



Connecting Wires with Ferrules and Solid Wires

Insert the solid wire or ferrule straight into the terminal block until the end strikes the terminal block.

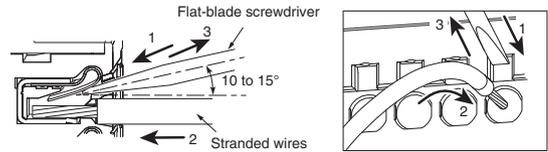


- If a wire is difficult to connect because it is too thin, use a flat-blade screwdriver in the same way as when connecting stranded wire.

Connecting Stranded Wires

Use the following procedure to connect the wires to the terminal block.

1. Hold a flat-blade screwdriver at an angle and insert it into the release hole.
The angle should be between 10° and 15°. If the flat-blade screwdriver is inserted correctly, you will feel the spring in the release hole.
2. With the flat-blade screwdriver still inserted into the release hole, insert the wire into the terminal hole until it strikes the terminal block. At that time, to prevent from separating from one another, please insert in a twisted state.
3. Remove the flat-blade screwdriver from the release hole.



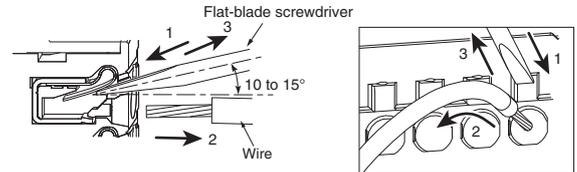
Checking Connections

- After the insertion, pull gently on the wire to make sure that it will not come off and the wire is securely fastened to the terminal block.
- If you use recommended ferrules, part of the conductor may be visible after the ferrule is inserted into the terminal block, but the product insulation distance will still be satisfied.

2. Removing Wires from the Push-In Plus Terminal Block

Use the following procedure to remove wires from the terminal block. The same method is used to remove stranded wires, solid wires, and ferrules.

1. Hold a flat-blade screwdriver at an angle and insert it into the release hole.
2. With the flat-blade screwdriver still inserted into the release hole, remove the wire from the terminal insertion hole.
3. Remove the flat-blade screwdriver from the release hole.



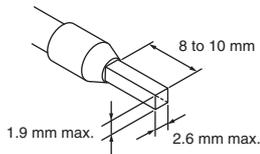
3. Recommended Ferrules and Crimp Tools

Recommended ferrules

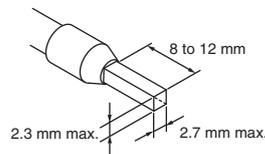
Applicable wire		Ferrule Conductor length (mm)	Stripping length (mm) (Ferrules used)	Recommended ferrules		
(mm ²)	(AWG)			Phoenix Contact product	Weidmuller product	Wago product
0.25 *1	24	8	10	AI 0,25-8	H0.25/12	216-301
		10	12	AI 0,25-10	---	---
0.34 *1	22	8	10	AI 0,34-8	H0.34/12	216-302
		10	12	AI 0,34-10	---	---
0.5	20	8	10	AI 0,5-8	H0.5/14	216-201
		10	12	AI 0,5-10	H0.5/16	216-241
0.75	18	8	10	AI 0,75-8	H0.75/14	216-202
		10	12	AI 0,75-10	H0.75/16	216-242
1/1.25	18/17	8	10	AI 1-8	H1.0/14	216-203
		10	12	AI 1-10	H1.0/16	216-243
1.25/1.5 *2	17/16	8	10	AI 1,5-8	H1.5/14	216-204
		10	12	AI 1,5-10	H1.5/16	216-244
2.5 *3	14	10	12	AI 2,5-10	H2.5/16DS	216-246
		12	14	AI 2,5-12	H2.5/19D	216-266
Recommended crimp tool				CRIMPFOX6 CRIMPFOX6T-F CRIMPFOX10S	PZ6 roto	Variocrimp4

- Note:** 1. Make sure that the outer diameter of the wire coating is smaller than the inner diameter of the insulation sleeve of the recommended ferrule.
2. Make sure that the ferrule processing dimensions conform to the following figures.

PYF-□□-PU/P2RF-□□-PU



PTF-□□-PU



- *1. If you use AWG24 to AWG22 (0.25 to 0.34 mm²) wires, UL certification will not apply.
- *2. On the PYF-□□-PU / P2RF-□□-PU, do not connect ferrules for the applicable wires (AWG17 to AWG16 (1.25 to 1.5 mm²)) to adjacent terminal (insertion) holes. However, when using a ferrule with no insulation sleeve, connecting to an adjacent terminal (insertion) hole is possible. (See the list below.)
- *3. AWG14 wire can only be used on the PTF-□□-PU.

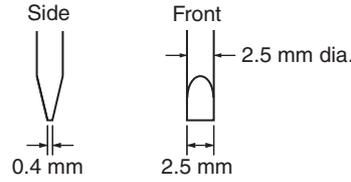
Ferrule with no insulation sleeve

Applicable wire		Ferrule Conductor length (mm)	Stripping length (mm) (Ferrules used)	Recommended ferrules		
(mm ²)	(AWG)			Phoenix Contact product	Weidmuller product	Wago product
1.25/1.5	17/16	10	10	A 1,5-10	H1.5/10	216-144
Recommended crimp tool				CRIMPFOX6 CRIMPFOX6T-F CRIMPFOX10S	PZ6 roto	Variocrimp4

Recommended Flat-blade Screwdriver

Use a flat-blade screwdriver to connect and remove wires. Use the following flat-blade screwdriver.

The following table shows manufacturers and models as of 2018/Dec.

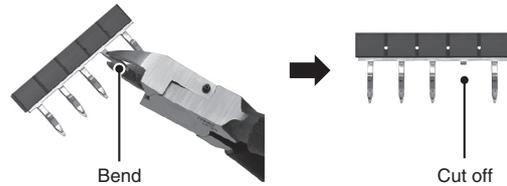


Model	Manufacturer
ESD 0,40X2,5	Wera
SZS 0,4X2,5 SZF 0-0,4x2,5 *	Phoenix Contact
0.4X2.5X75 302	Wiha
AEF.2,5X75	Facom
210-719	Wago
SDIS 0.4X2.5X75	Weidmuller
9900 (-2.5X75)	Vessel

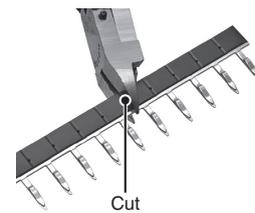
* OMRON's exclusive purchase model XW4Z-00B is available to order as SZF 0-0,4X2,5 (manufactured by Phoenix Contact).

When mounting a short bar

- Intermediate pins can be bent by a tool or by hand and cut off for use.



- The short bar can be cut to as many poles as needed. Insert the tool from the plastic part side, and cut along the groove in the plastic part between the terminals. When cutting, take care not to break or deform the terminals. However, because the metal on the cut surface will be exposed, insulation countermeasures between adjacent products must be ensured. Such countermeasures include widening the intervals between products or using XW5Z-EP12 separate plates (order separately).



Terms and Conditions Agreement

Read and understand this catalog.

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranties.

- (a) Exclusive Warranty. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed in writing by Omron). Omron disclaims all other warranties, express or implied.
- (b) Limitations. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE.

Omron further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Products or otherwise of any intellectual property right. (c) Buyer Remedy. Omron's sole obligation hereunder shall be, at Omron's election, to (i) replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product, (ii) repair the non-complying Product, or (iii) repay or credit Buyer an amount equal to the purchase price of the non-complying Product; provided that in no event shall Omron be responsible for warranty, repair, indemnity or any other claims or expenses regarding the Products unless Omron's analysis confirms that the Products were properly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Omron before shipment. Omron Companies shall not be liable for the suitability or unsuitability or the results from the use of Products in combination with any electrical or electronic components, circuits, system assemblies or any other materials or substances or environments. Any advice, recommendations or information given orally or in writing, are not to be construed as an amendment or addition to the above warranty.

See <http://www.omron.com/global/> or contact your Omron representative for published information.

Limitation on Liability; Etc.

OMRON COMPANIES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY.

Further, in no event shall liability of Omron Companies exceed the individual price of the Product on which liability is asserted.

Suitability of Use.

Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

Programmable Products.

Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.

Performance Data.

Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.

Change in Specifications.

Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

Errors and Omissions.

Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

OMRON Corporation Industrial Automation Company
Kyoto, JAPAN

Contact: www.ia.omron.com

Regional Headquarters

OMRON EUROPE B.V.

Wegalaan 67-69, 2132 JD Hoofddorp
The Netherlands

Tel: (31)2356-81-300/Fax: (31)2356-81-388

OMRON ELECTRONICS LLC

2895 Greenspoint Parkway, Suite 200
Hoffman Estates, IL 60169 U.S.A.

Tel: (1) 847-843-7900/Fax: (1) 847-843-7787

OMRON ASIA PACIFIC PTE. LTD.

No. 438A Alexandra Road # 05-05/08 (Lobby 2),
Alexandra Technopark,
Singapore 119967

Tel: (65) 6835-3011/Fax: (65) 6835-2711

OMRON (CHINA) CO., LTD.

Room 2211, Bank of China Tower,
200 Yin Cheng Zhong Road,
PuDong New Area, Shanghai, 200120, China

Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200

Authorized Distributor:

© OMRON Corporation 2018-2019 All Rights Reserved.
In the interest of product improvement,
specifications are subject to change without notice.

CSM_1_3_0919

Cat. No. J225-E1-02

0919(1118)