

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.
- Each terminal includes two wiring holes and can be used for crossover wiring.
- DIN Track mounting or screw mounting.

* According to OMRON actual measurement data from November 2015.

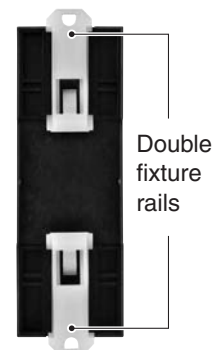
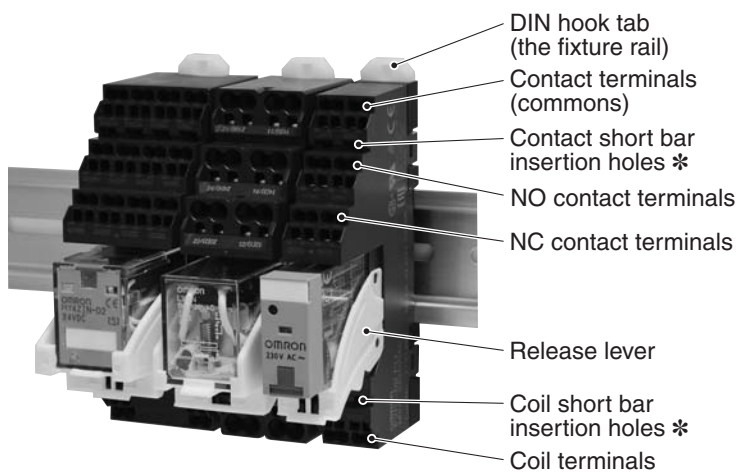


For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Refer to *Safety Precautions* on page 10.

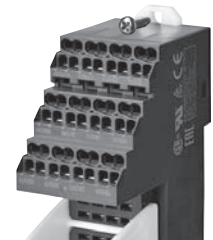
Features

- 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.



Back of Push-In Plus Terminal Block Socket

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



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

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 *	PPF-M	10
Spacer	PPF-S	

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

Approved Standards

CSA certification (File No. LR031928)

Model	Ratings	Class No.	Standard No.
PYF-08-PU (-L) PTF-08-PU (-L) P2RF-05-PU	10 A 250 V	3211 07	CSA C22.2 No14
PYF-14-PU (-L)	6A 250V *		
PTF-14-PU (-L)	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 (-L) PTF-08-PU (-L) P2RF-05-PU	10 A 250 V	UL508	SWIV2	Recognized
PYF-14-PU (-L)	6 A 250 V *			
PTF-14-PU (-L)	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

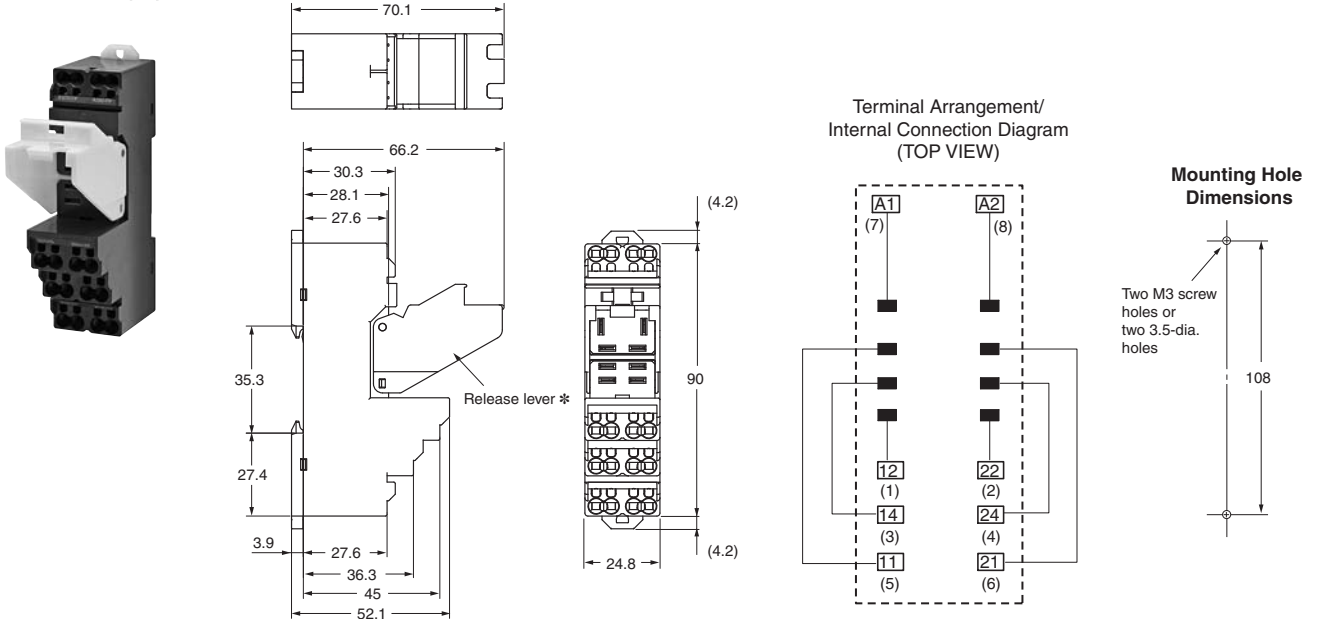
Model	Ratings	Standard No.	Certification No.
PYF-08-PU (-L)	10 A 250 V *1	EN 61984	R50327595
PYF-14-PU (-L)	6 A 250 V		R50327599
P2RF-05-PU	10 A 250 V *1		R50440885
P2RF-08-PU	6 A 250 V *3		
PTF-08-PU (-L)	10 A 250 V *1		
PTF-14-PU (-L)	10 A 250 V *2		

*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.

PTF-08-PU (-L)

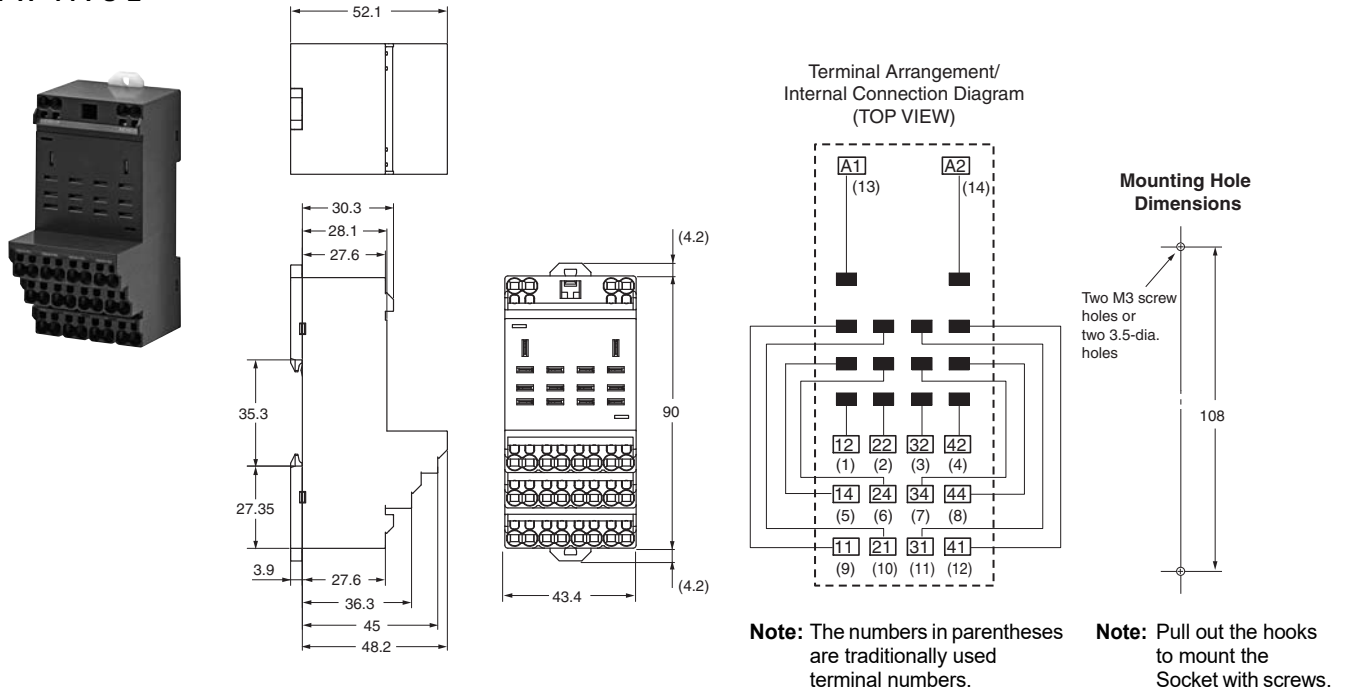


Note: When you apply a minimum of 10 A of current to an LY1 when it is used in combination with the PTF-08-PU(-L), connect each of the following terminal pairs: (1) to (2), (3) to (4), and (5) to (6).
 * The PTF-08-PU-L Sockets do not have release levers.

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

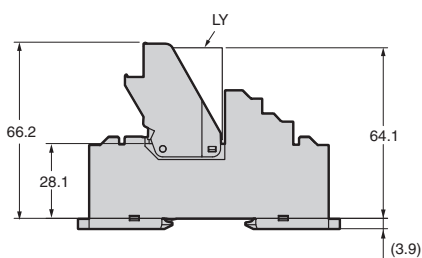


Note: The numbers in parentheses are traditionally used terminal numbers.

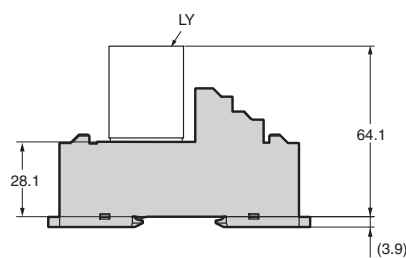
Note: Pull out the hooks to mount the Socket with screws.

Mounting Heights

PTF-08-PU



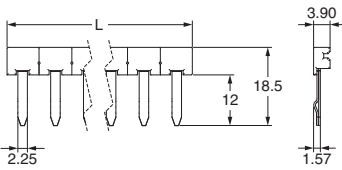
PTF-14-PU-L



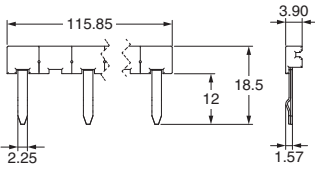
Accessories (Order Separately)

Short Bars

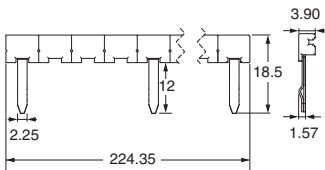
PYDN-7.75-□□ (7.75 mm)



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).

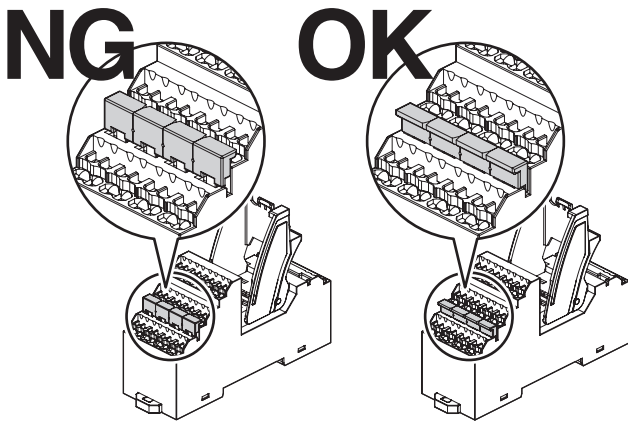
* Replace the box (□) in the model number with the code for the covering color.

Parts for DIN Track Mounting

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

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.
- Insert the short bar so that the protrusion part of the short bar comes to the wire insertion side. Be sure to insert the short bar in the correct direction. Inserting the short bar in the opposite direction will prevent the short bar from being fully inserted, leading to contact failure or other problems.



- 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.

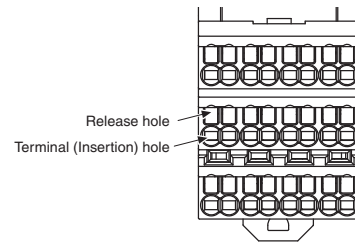
Applying 10 A or More When Using an LY1 with the Following Sockets

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

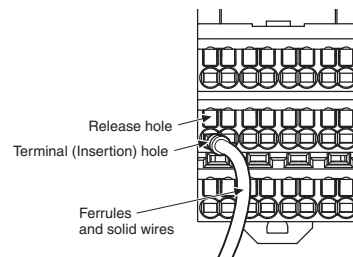
1. Connecting Wires to the Push-In Plus Terminal Block

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.

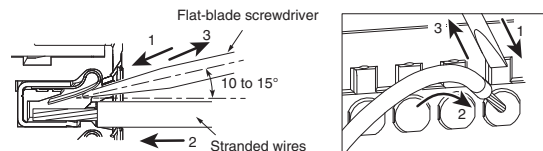


- If a wire is difficult to connect because it is too thin, use a flat-blade screwdriver in the same way as when connecting stranded wire.

Connecting Stranded Wires

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

- 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.
- 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.
- Remove the flat-blade screwdriver from the release hole.



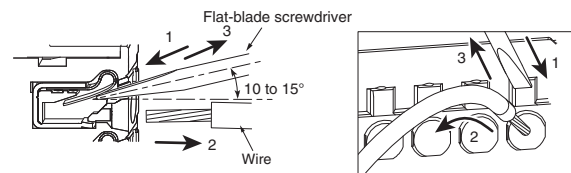
Checking Connections

- 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.

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



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