Screwless Clamp Terminal Sockets

PYF S/P2RF- S

CSM_PYF__S/P2RF-__-S_DS_E_2_5

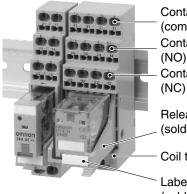
New Screwless Terminal Sockets Added for MY and G2R Relays.

- · Simplified wiring without tightening screws.
- Two wires can be independently wired for each terminal.
- Coil terminals and contact terminals are completely separated in an organized wiring layout.
- Release Levers and Labels are available (sold separately).



Features

Structured for Easy Wiring



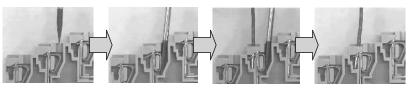
Contact terminal (common) Contact terminal (NO) Contact terminal

Release Lever (sold separately)

Coil terminals

Label (sold separately)

Complete Wiring in Three Steps



Insert a screwdriver.

Screwdriver inserted.

Insert the wire.

Remove screwdriver to complete wiring.

- A spring holds the wire in place to reduce wiring work by 30% (according to OMRON comparison) and eliminates the need to manage torque.
- DIN terminal numbers also indicated.

Ordering Information

Sockets

Applicable model (typical example)	Socket
	Model
MY2	PYF08S
MY4	PYF14S
G2R-1-S	P2RF-05-S
G2R-2-S	P2RF-08-S

Options (Order Separately)

Applicable Socket Release Bar Model		Labels	Short Bars with Red Insulation	Short Bars with Blue Insulation
		Model	Model	Model
PYF08S	PYCM-08S		PYDM-08SR	PYDM-08SB
PYF14S	PYCM-14S	R99-11	PYDM-14SR	PYDM-14SB
P2RF-05-S	i-S P2CM-S	N33-11	P2RM-SR	P2RM-SB
P2RF-08-S	FZCIVI-3		FZNM-SK	FZNW-SB

Note: Pieces per Package Labels: 100 Short Bars: 50

Ratings/Characteristics

Characteristics

Sockets PYF□□S

Item	Model	PYF08S	PYF14S
Ambient op	erating temperature	-55 to 70°C	
Ambient op	erating humidity	5% to 85%	
Continuous	carry current*	10 A 5 A	
	Between contact terminals of same polarity	2,000 VAC, 1 min	2,000 VAC, 1 min
Dielectric strength	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 r	esistance	1,000 M Ω min.	
Weight (app	ight (approx.) 46 g 62 g		62 g

^{*}The continuous carry current of 10 A for the PYF08S is for an ambient temperature of 55°C. At an ambient temperature of 70°C, the value is 7 A.

P2RF-□□-S

Item	Model	P2RF-05-S	P2RF-08-S	
Ambient op	erating temperature	-40 to 70°C		
Ambient op	erating humidity	5% to 85%		
Continuous	carry current	10 A 5 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 r	Insulation resistance 1,000 M Ω min.			
Weight (approx.) 36 g 40 g		40 g		

Socket Accessories Short Bars

Application	Applicable sockets	Model	Maximum carry current	Ambient operating temperature	Ambient operating humidity
For Coil terminals	PYF08S	PYDM-08S□	10 A	-40 to 70°C	5% to 85%
	PYF14S	PYDM-14S□	10 A	-40 to 70°C	5% to 85%

Ratings for Safety Standard Certification

PYF□□S

Standard	File No.
VDE0627 (EN61984)	Certificate No. 40015509
UL508 (UL1059)	E87929 Vol.3
CSA C22.2 No.14 (CSA C22.2 No.158)	LR31928

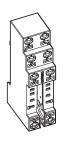
P2RF-□□-S

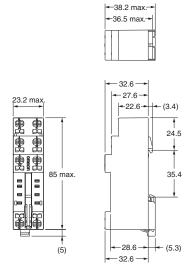
Standard	File No.
VDE0627 (EN61984)	Certificate No. 40002313
UL508 (UL1059)	E87929 Vol.3
CSA C22.2 No.14 (CSA C22.2 No.158)	LR31928

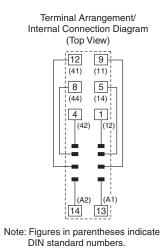
Dimensions (Unit: mm)

Sockets

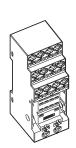
PYF08S

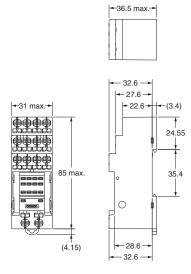


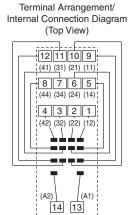




PYF14S

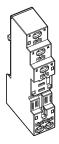


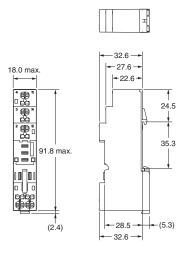


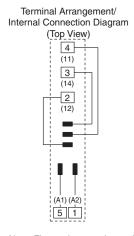


Note: Figures in parentheses indicate DIN standard numbers.

P2RF-05-S

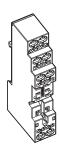


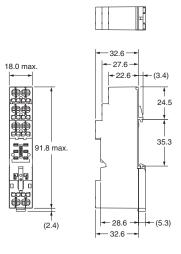


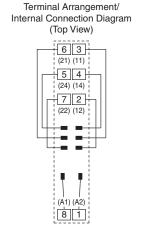


Note: Figures in parentheses indicate DIN standard numbers.

P2RF-08-S



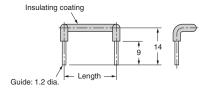




Note: Figures in parentheses indicate DIN standard numbers.

Accessories (Order Separately)

Short Bars

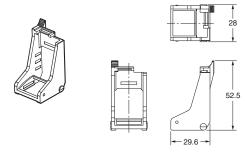


Applicable Sockets	Model	Length (mm)	Insulation color
PYF08S	PYDM-08SR 19.7	Red	
F 11 003	PYDM-08SB	19.7	Blue
PYF14S	PYDM-14SR	27.5	Red
	PYDM-14SB	27.5	Blue
P2RF-□□-S	P2RM-SR	14.3	Red
	P2RM-SB	14.5	Blue

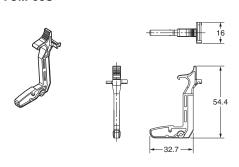
Note: Use the Socket Bridges for relay coil bridge wiring.

Release Levers

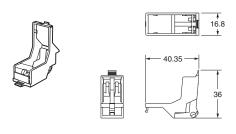
PYCM-14S



PYCM-08S

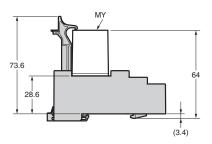


P2CM-S

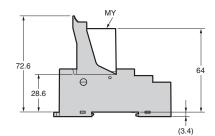


Mounting Heights

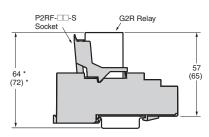
PYF08S



PYF14S



P2RF-□□-S



Figures of height in () is with G2R Relays with Latching Lervers. Values indicated with asterisks are for when using a PFP-N Track. The values increase by approximately 9 mm when using a PFP-N Track.

Safety Precautions

Precautions for Safe Use

 Do not move the screwdriver up, down, or from side to side or rotate it while it is inserted in the hole. Doing so may damage internal components in the Socket.

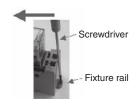


- Do not insert more than one wire into the same hole. Doing so may cause abnormal heating.
- There are two internally connected wiring holes for each terminal.
- Insert the screwdriver along the hole wall as shown below.

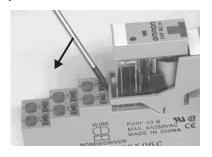


Screwdriver

 When you remove a Socket from a support rail, insert the end of a screwdriver into the fixture and move the screwdriver as shown by the arrow in the following figure.



When you use a Release Lever to remove a Relay from a P2RF——-S Socket, insert a screwdriver at the location shown in the following figure and move the Release Lever in the direction indicated by the arrow to release the lock on the release lever.



Precautions for Correct Use

Wiring Tools

Applicable Screwdriver

Use a flat-blade screwdriver with a tip that is $2.5 \ \text{mm}$ wide ($3.0 \ \text{mm}$ max.).



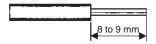


You cannot use a screwdriver with a thick shaft.

Applicable Screwdriver (Example) VESSEL No.9900 - (-) 2.5 \times 75

Applicable Wires

- You can use either solid wires or stranded wires. Applicable wire size: 0.2 to 1.5 mm² (AWG24 to AWG16)
- Strip 8 to 9 mm of insulation from the ends of the wires.

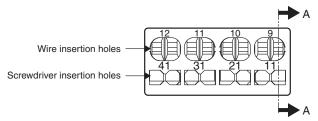


- If you insert stranded wires without ferrules, make sure that the wires are twisted when you insert them.
- If you use bare ferrules, always attach insulating sleeves.
- If you insert a wire with a sheath outer diameter of 2.2 mm or less, do not insert the wire far enough so that the sheath is engaged inside the hole, as shown below.

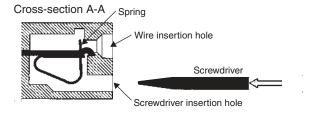


- Two wires with a sheath outer diameter of 3.2 mm or larger cannot be inserted for the same terminal at the same time.
- Use heat-shrinking tubes to indicate wire numbers.

Wiring



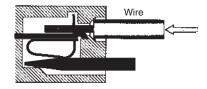
 Insert a screwdriver into a screwdriver insertion hole on the Socket.



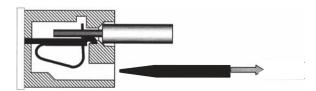
(2) Press the screwdriver in until it reaches the stopper inside the Socket. The spring at the back of the wire insertion hole will be completely open in this condition. The screwdriver will be held in place even if you remove your hand.



(3) With the screwdriver held in place, insert the wire or ferrule into the wire insertion hole.



(4) Remove the screwdriver. The spring will hold the wire. This concludes the connection procedure.



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