Miniature Intermediate Power Relay
HYE

- 10A Switching Capability
- 2kV dielectric strength (between coil and contacts)
- Plug-in or PCB mountable
- Different Sockets Available
- RoHS Compliant
- 2 to 4 pole configurations
- Outline Dimensions: 28.0 x 21.3 x 35.2mm

Options & Ordering Codes

HYE	4	1	PN	24VDC

Contact Arrangement

2 Pole CO	2
3 Pole CO	3
4 Pole CO	4

Termination

Plug-In	1
PCB	2

Coil Voltage

PN	Mechanical indicator /test latch LED
XX	No indication

Contact Data		
Contact Arrangement	2P / 3P	4P
Contact Resistance	50mΩ (at 1A 24VDC)	
Contact Material	$AgSnO_2$	
Contact Rating	10A 250VAC/30 VDC	5A 250VAC/30 VDC
Max. Switching Voltage	250VAC / 30VDC	
Max. Switching Current	10A	5A
Max. Switching Power	2500VA / 300W	1250 VA / 150 W
Mechanical Life	$1x10^7$ OPS	
Electrical Life	$1x10^5$ OPS	

Characteristics		
Initial Insulation Resistance		1000MΩ (at 500VDC)
Dielectric Strength	Between coil & contacts	1500VAC 1min
	Between open contacts	1000VAC 1min
	Between contact sets	1500VAC 1min
Operate Time (at nominal voltage)		25ms max.
Release Time (at nominal voltage)		25ms max.
Shock Resistance	Functional	$100m/s^2$
	Destructive	$1000m/s^2$
Vibration Resistance		10 to 55Hz 1.5mm DA
Ambient Temperature		-40°C to +70°C
Humidity		98% RH, +40°C
Termination	8 Pin	PCB, Plug-In
Unit Weight		Approx 37g
Construction		Dust Protected

Coil		
Coil Power	DC Type	900mW
	AC Type	1.2VA

Coil Data at 23°C

Nominal Voltage VDC	Pick-Up Voltage VDC	Drop-Out Voltage VDC	Coil Resistance Ω
6	4.8	0.6	40 (1±10%)
12	9.6	1.2	160 (1±10%)
24	19.2	2.4	650 (1±10%)
48	38.4	4.8	2600 (1±10%)
110	88.0	11.0	11000 (1±10%)

Nominal Voltage VAC	Pick-Up Voltage VAC	Drop-Out Voltage VAC	Coil Resistance Ω
6	4.8	1.8	12 (1±10%)
12	9.6	3.6	46 (1±10%)
24	19.2	7.2	180 (1±10%)
48	38.4	14.4	780 (1±10%)
110	80.0	30.0	3750 (1±10%)
220	160.0	60.0	12950 (1±10%)
230	176.0	66.0	18790 (1±10%)

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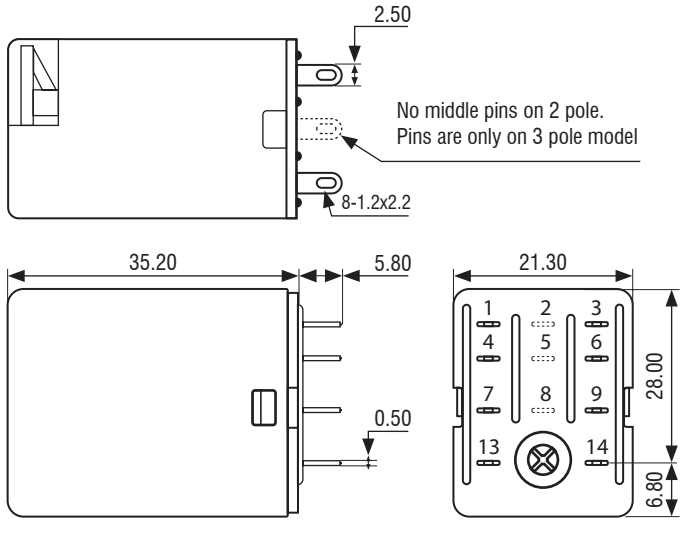
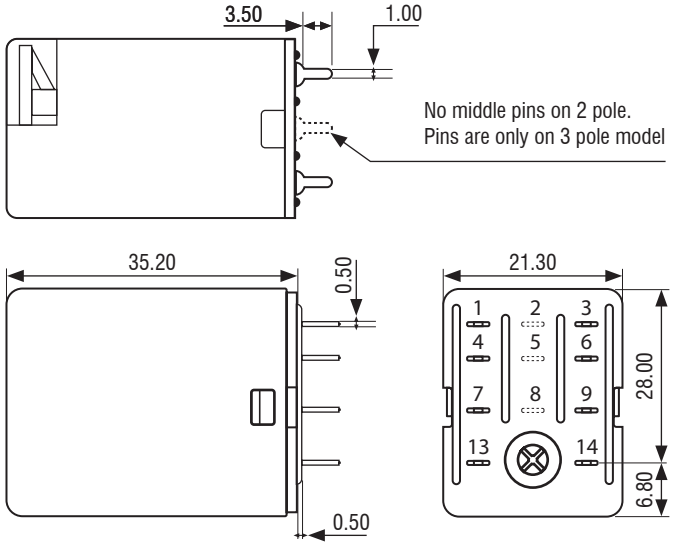
2 and 3 POLES

Plug-in

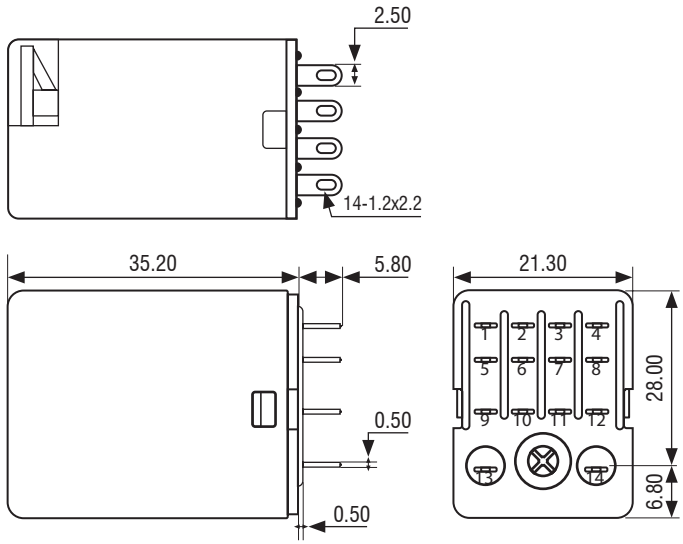


PCB

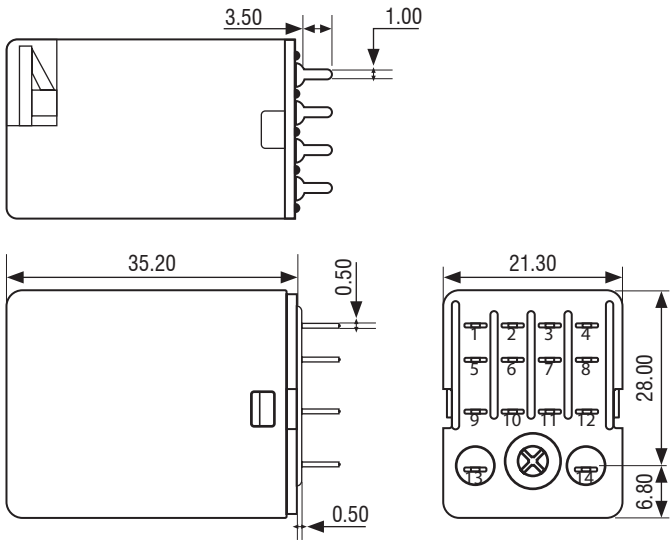


4 POLES

Plug-in

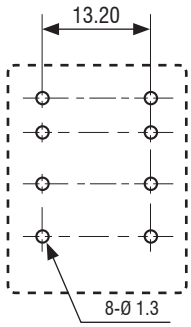


PCB

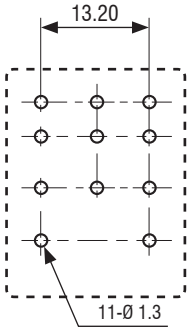


PCB LAYOUT

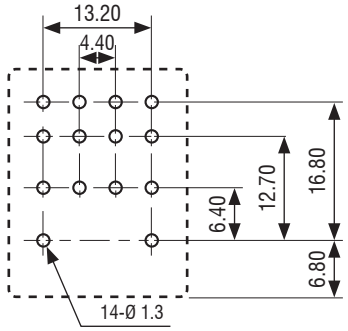
2 Poles CO



3 Poles CO



4 Poles CO



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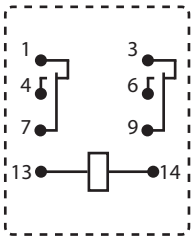
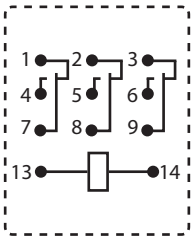
WIRING DIAGRAM

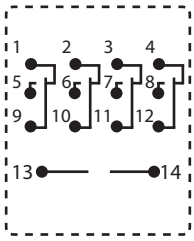
2 Poles CO



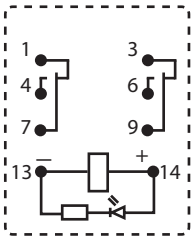
3 Poles CO



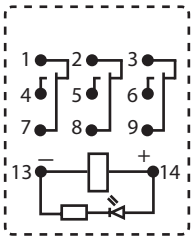
4 Poles CO



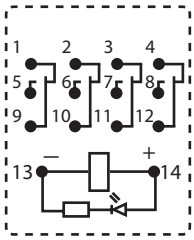
2 Poles CO
(with LED)



3 Poles CO
(with LED)



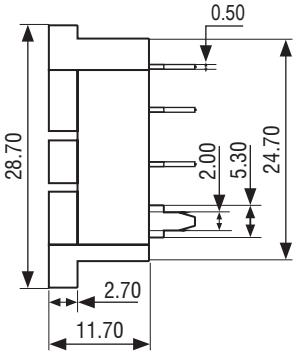
4 Poles CO
(with LED)

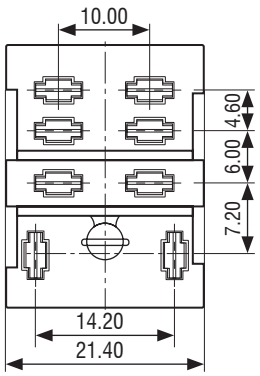


Bases - Dimensions (mm)

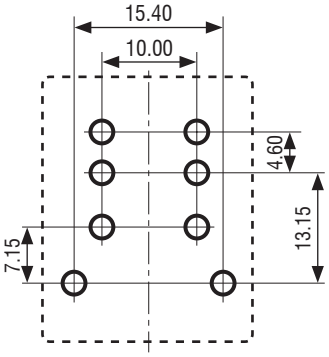
Relay	Base	Nominal Voltage (V)	Nominal Current (A)	Ambient Temperature	Dielectric Strength Min.	Screw Torque (Nm)	Wire Strip Length (mm)
2P	SRPE2-0	300V	10A	-25 to 85°C	1500VAC	N/A	N/A
2P	SRNE2-D	300V	10A	-25 to 85°C	2500VAC	0.6	7mm
2P	SRNE2-S	300V	10A	-25 to 85°C	2500VAC	0.6	7mm
3P	SRNE3-C	300V	10A	-25 to 85°C	2500VAC	0.6	7mm
3P	SRNE3-D	300V	10A	-25 to 85°C	2500VAC	0.6	7mm
4P	SRPE4-0	300V	10A	-25 to 85°C	2500VAC	N/A	N/A
4P	SRNE4-C	300V	10A	-25 to 85°C	2500VAC	0.6	7mm
4P	SRNE4-D	300V	10A	-25 to 85°C	2500VAC	0.6	7mm
4P	SRNE4-S	300V	10A	-25 to 85°C	2500VAC	0.6	7mm

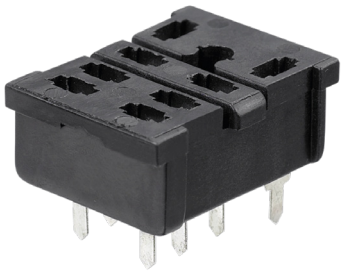
SRPE2-0





PCB Layout





ACCESSORY
Metallic retainer SRC-CLIP

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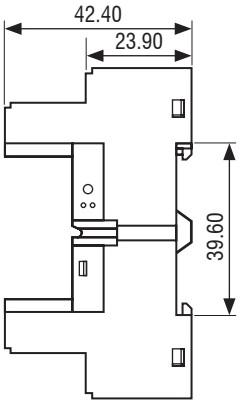
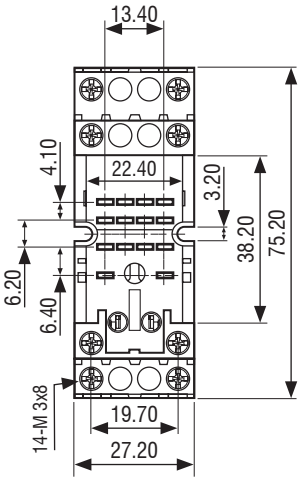
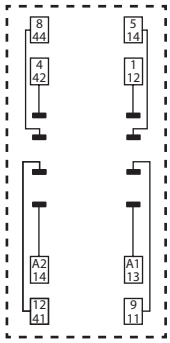
HYE

SRNE2-D





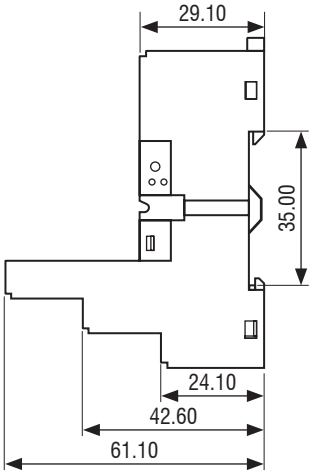
Wiring Diagram

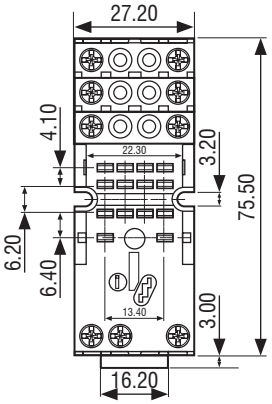


(Top View)

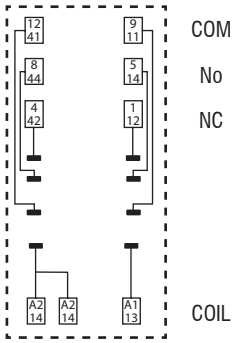
ACCESSORY
Metallic retainer RC4-N
Marker - SRN-BM-1
Plug-in modules PDME1 to RPDME1

SRNE2-S

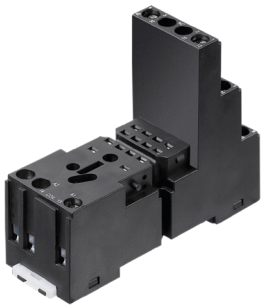




Wiring Diagram

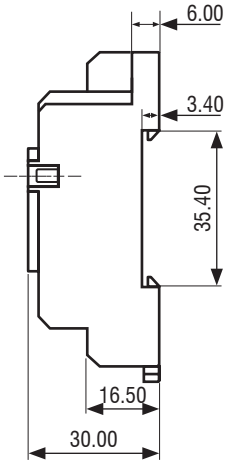


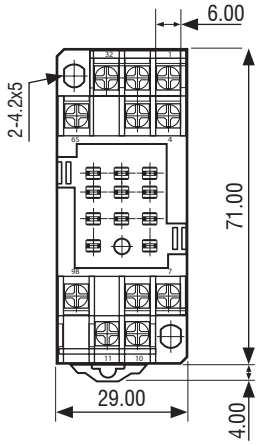
(Top View)



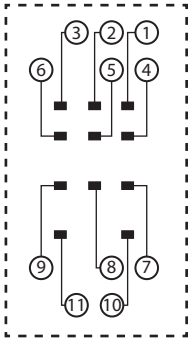
ACCESSORY
Metallic retainer RC4-N
Marker - SRN-BM-1
Plug-in modules PDME1 to RPDME1

SRNE3-C





Wiring Diagram



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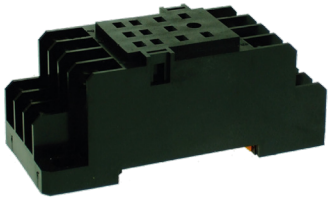

Miniature Intermediate Power Relay
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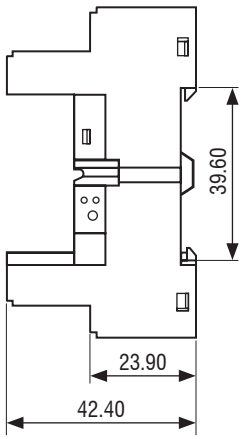
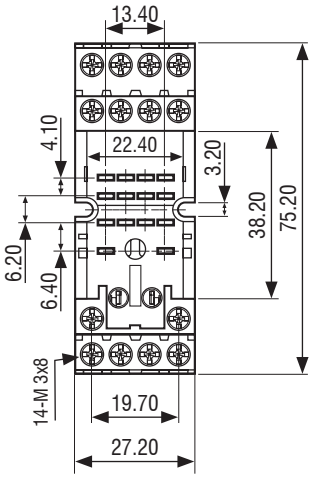
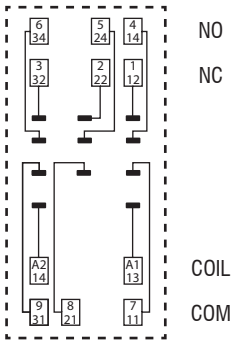
SRNE3-D





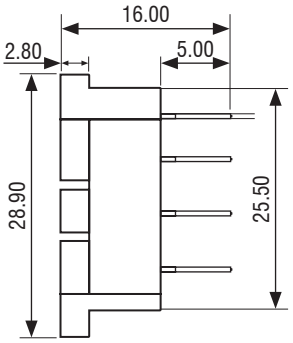
Wiring Diagram

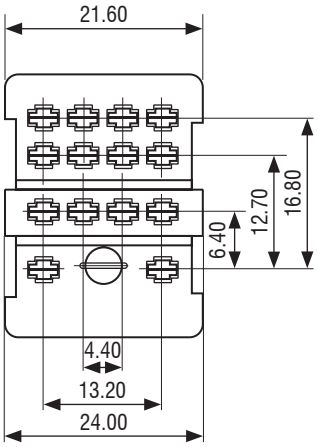


(Top View)

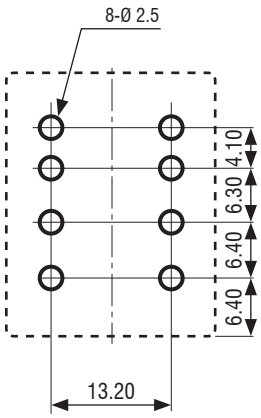
ACCESSORY
Metallic retainer RC4-N
Marker - SRN-BM-1
Plug-in modules PDME1 to RPDME1

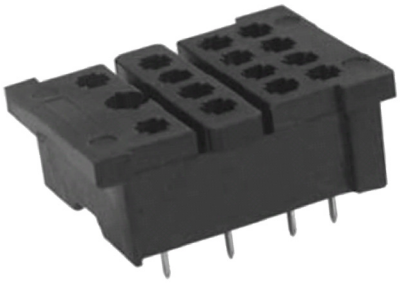
SRPE4-0



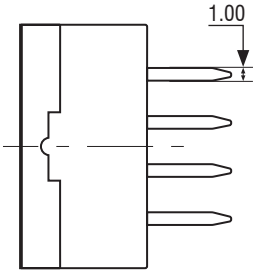


PCB Layout





ACCESSORY
Metallic retainer SRC-CLIP



Miniature Intermediate Power Relay
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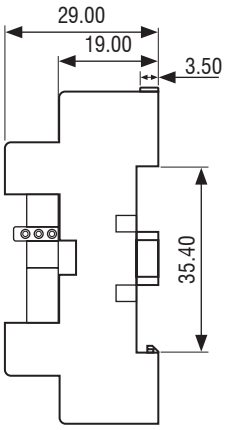
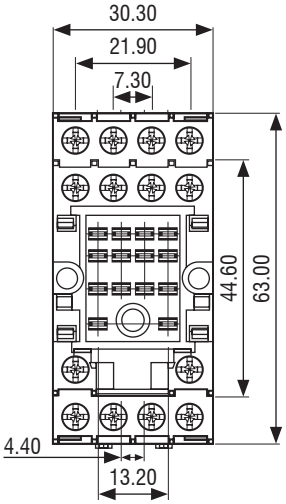
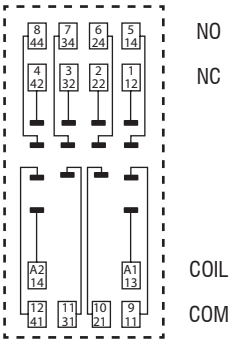
SRNE4-C

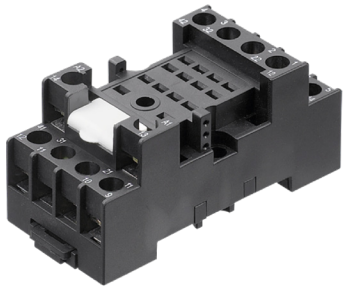




Wiring Diagram

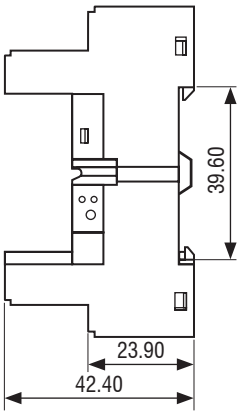


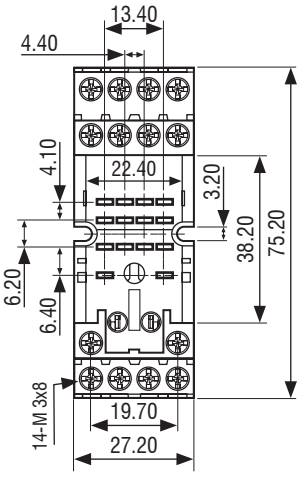
(Top View)



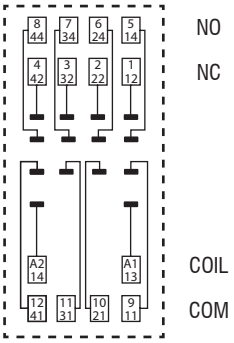
ACCESSORY
Metallic retainer RC4-N

SRNE4-D

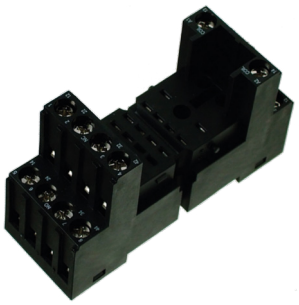




Wiring Diagram

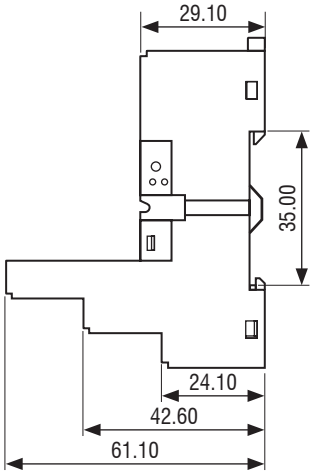


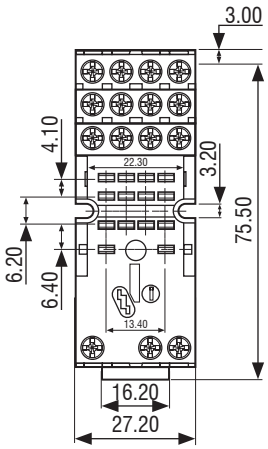
(Top View)



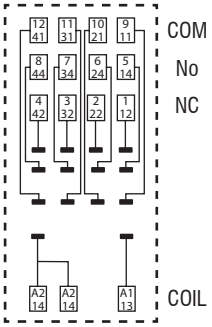
ACCESSORY
Metallic retainer RC4-N
Marker - SRN-BM-1
Plug-in modules PDME1 to RPDME1

SRNE4-S

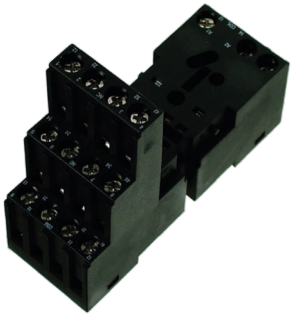




Wiring Diagram



(Top View)



ACCESSORY
Metallic retainer RC4-N
Marker - SRN-BM-1
Plug-in modules PDME1 to RPDME1

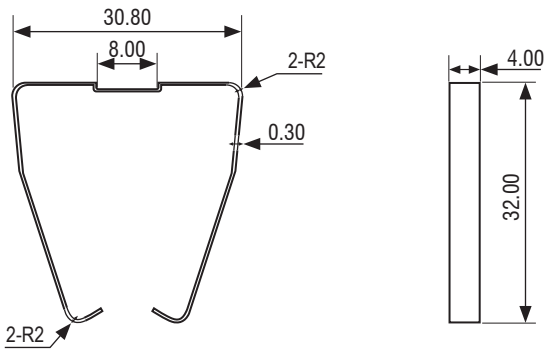
Errors and omissions excepted. Subject to change without notice.

Miniature Intermediate Power Relay
HYE

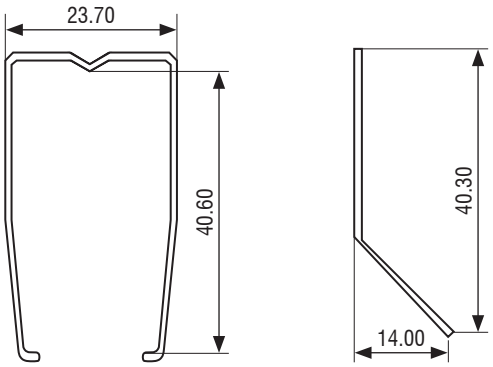
DIMENSIONS OF RELATED COMPONENT

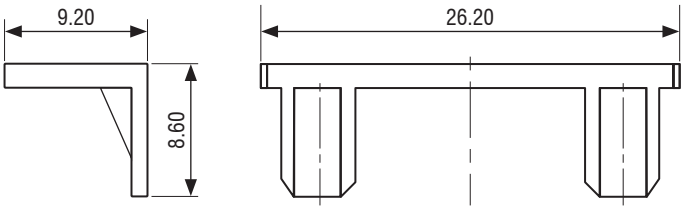
Retainers

SRC-CLIP



RC4-N



Markers

SRN-BM-1