Miniature control relays

■ Description

The HH52, 53 and 54 are a series of miniature general purpose relays specially designed for users demanding small size, sturdy construction and high electrical capacity. Mechanisms are furnished in polycarbonate dust-proof enclosures and are recommended for a multitude of electrical control applications for their reliability and compact size. Continuous duty coils, either AC or DC are available for voltages up to 240V AC or 120V DC. Contacts can be supplied in 2PDT, 3PDT, 4PDT arrangements. Continuous current ratings are 3, 5 and 7 Amps. Many terminal types are available for solder, plug-in or printed circuit board mounting.

■ Features

- 3, 5 and 7 Amp. contacts
- 2PDT, 3PDT and 4PDT
- · Reliable operation, long service life
- · High dielectric strength
- · Solder, PC board, wire wrap and screw terminal socket
- · AC or DC coils
- Barriered contacts for opposite polarity available
- Dust proof enclosures
- Approved by UL, CSA and TÜV UL recognized File No: E42419, E90265 (Socket) CSA: LR 20479 TÜV:

License No. R9251339 (HH52) R9251340 (HH53) R9251341 (HH54)

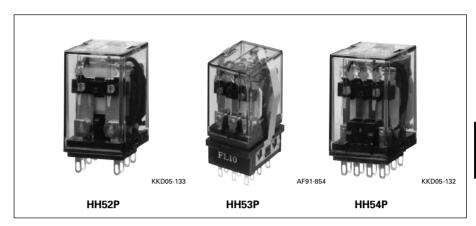
T9251612 (TP58, 511, 514) T9251425 (RZ, FX)

■ General information

Contacts

Miniature relays can be supplied with contacts that meet most electrical and mechanical contact requirements. The standard HH52, 53 and 54 series are of the single contact type as illustrated. The HH52W (2PDT) and HH54W (4PDT) relays are supplied with bifurcated contacts. These bifurcated contacts are with good conducting characteristics and are recommended where limited control power is available.

The dielectric strength is 1000 volts rms 50/60Hz (between open contacts) which makes them more than adequate for power circuit use.



Contact arrangement are as follows:

Contact arrangement	Rated thermal current
2PDT 2PDT 3PDT 4PDT 4PDT	7 Amps 5 Amps 5 Amps 5 Amps 3 Amps
	arrangement 2PDT 2PDT 3PDT 4PDT







Bifurcated contact

Single contact

Coils

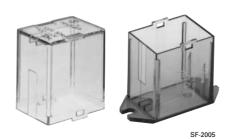
Coils are available with nominal voltages within the following ranges.

Coil voltage	Power consumption
6 to 120V DC	Approx. 0.9W
6 to 240V AC	Approx. 1.0VA
(50/60Hz)	(60Hz)

Special purpose relays can be supplied with diode for surge suppression, for operating display devices such as LED's, and magnetically held type.

Enclosures

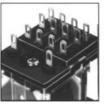
All miniature relays are enclosed in sturdy heat-resistant polycarbonate covers providing protection against dust and dirt.



Standard

Flange mounting

Terminals





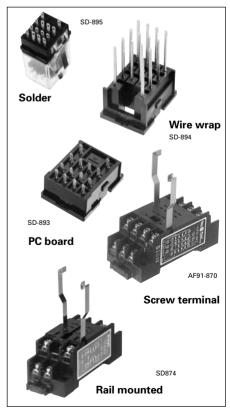
Plug-in type terminal

PC board type terminal

Sockets

There is almost infinite choise of sockets. They can be adapted to all types of wiring including solder type, standard screw terminals, wire wrap and printed circuit.

Sockets for rail mounting use are also available.

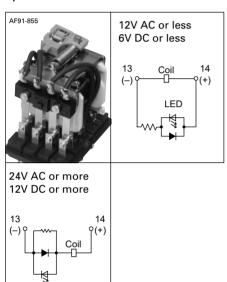


■ Versions

Operating status indicator

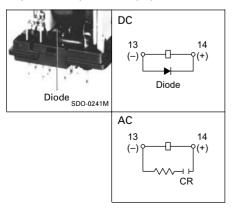
All relays can be supplied on request with a visual indicating signal-a light emitting diode (LED).

LED's are fitted to relays with nominal operating voltages up to 240 volts. The LED emits highly visible red light for AC and green light for DC when power is applied to the relay coil, an extremely useful signal when trouble shooting either equipment or a system.



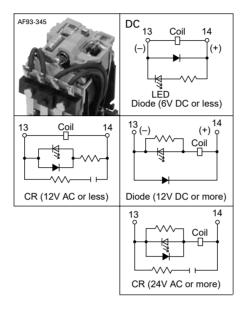
Surge suppression

We can also supply relays with a diode (or CR) for surge suppression. The highly efficient diode (or CR) is connected in parallel with the coil in order to suppress the surge generated within the coil. Consequently this coil can be used in electric circuits which include highly sensitive relays or transistors, etc. without interfering with their operation, so increasing the dependability of the equipment.



With operation indicator and surge suppression device

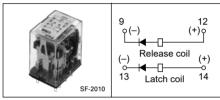
This type has a built-in operation indicator and suge suppressor.



Dual coil magnetically held

One coil firmly holds the contacts in one position, the second coil releases

This relay has a good memory stability because it will maintain the ON condition during loss of power. It operates on a momentary pulse to either coil. The relay saves space as well as power, since a single unit occupies half the space of a mechanically interlocking latching relay of the same rating. Voltages: 6V–110V AC, 6V–48V DC



With extra pick-up operating coil

This type is recommended for use in poor power supply environments. 65% of rated voltage Pick-up voltage:

(at 20°C)

Drop-out voltage: 10% of rated voltage

(at 20°C)

Mechanical durability: 10 million

operations

Other specifications are the same as

those of the basic model.

High capacity type

This type is suitable for switching a load like solenoid. The current rating of the contacts is 7A for HH52PU and 5A for HH54PU. Other specifications are the same as those of the basic model.

With Au-plated Ag contact

Type HH ☐-J has gold-plated contacts. (Note: Models with bifurcated contacts and 4PDT high-capacity models are provided with gold-plated contacts as standard, even if their type number has

■ Ordering code system

Relay

R M 2C P W R F-AH 1 2 34 5 6 7 8 910

(1)	Prod	LICT	cated	on
W	rrou	ucı	catec	vioi

	<u> </u>
Code	Description
R	Control relay
② Seri	ies category
Code	Description
М	Miniature control relay (HH52 to HH54)
Р	Miniature power relay (HH62 to HH64)
С	General purpose relay (HH22 to HH24)

34 Contact arrangement

	o o contact an angenion.		
Со	de	Contact	
3	4	arrangement	
2	С	2PDT	
3	С	3PDT	
4	С	4PDT	
3	M	1NO+1NC+SPDT	
4	M	2NO+1NC+SPDT	
4	2	2PDT with extra pick-up coil	

5 Mounting

Code	Mounting
P B S	Plug-in mounting PC board mounting Flange mounting
	-

© Contact form

Code	Form
Blank	Single
W	Bifurcated
U	High capacity (HH52, 54)
J	Single (Au-plated)

7 Version

Code	Description		
Blank R	Standard Magnetically held		

Accessory

Code	Description
Blank F G	Not provided With surge suppression diode (DC) With LED indicator and surge suppression diode (DC)
L C A	With LED indicator With surge suppression (CR) With LED indicator and surge suppression CR (AC)

90 Operating coil

9 9	de ⑩	Coil voltage
A	A B	6V AC 50/60Hz 12V AC 50/60Hz
A A	E	24V AC 50/60Hz 48V AC 50/60Hz
A	1	100–110V AC 50/60Hz
Α	Н	110-120V AC 50/60Hz
Α	2	200-220V AC 50/60Hz
Α	М	220–240V AC 50/60Hz
D	Α	6V DC
D	В	12V DC
D	E	24V DC
D	F	48V DC
D	1	100–110V DC

Socket

R X 58 X2-CR ZT

1 2 34 56 78 910

① Product category

Code	Description	
R	Control relay	
② Series category		
Code	Description	
X	Socket	
③④ Application		

Code ③ ④		Туре
5	8	TP58 (For HH52P)
5	1	TP511 (For HH53P)
5	4	TP514 (For HH54P)
6	8	TP68 (For HH62P)
6	1	TP611 (For HH63P)
6	4	TP614 (For HH64P)
8	G	8GB (For HH22P)
3	8	TP38 (For HH22P)
1	G	11GB (For HH23P)
3	1	TP311 (For HH23P)

56 Mounting and wiring

C c 5	de ⑥	Description
Bla	ank	Soldering
В	1	PC board
R	2	Wire wrap
		Surface mounting screw terminal
		(M3.5)
S	0	For HH22, 23, 24
		Rail mounting screw terminal
		(M3.5)
Χ	0	For HH22, 23, 24
X	2	For HH52, 53, 54, HH62, 63, 64
		Rail mounting screw terminal
		(M3)
X	1	For HH52, 53, 54

Socket with surge suppression device

Co	de ®	Description
C C C	R 1 2	Provided with CR circuit Provided with 100V Z-trap (diode) Provided with 200V Z-trap (diode)
		pprovals

Co 9	de ⑩	Standards
Z Z	U S	UL UL/CSA
Z	Т	ΤÜV
Z	L	Lloyd

■ Versions Relay

Classificatio	on	Contact for and arrangeme		Mounting Plug-in Type	Ordering code	PC board Type	Ordering code	Flange Type	Ordering code
Standard	Without LED	Single Bifurcated	2PDT 3PDT 4PDT 2PDT 4PDT	HH52P HH53P HH54P HH52PW HH54PW	RM2CP-■ RM3CP-■ RM4CP-■ RM2CPW-■ RM4CPW-■	HH52B HH53B HH54B HH52BW HH54BW	RM2CB-■ RM3CB-■ RM4CB-■ RM2CBW-■ RM4CBW-■	HH52S HH53S HH54S HH52SW HH54SW	RM2CS-■ RM3CS-■ RM4CS-■ RM2CSW-■ RM4CSW-■
	With LED	Single Bifurcated	2PDT 3PDT 4PDT 2PDT 4PDT	HH52P-L HH53P-L HH54P-L HH52PW-L HH54PW-L	RM2CPL-■ RM3CPL-■ RM4CPL-■ RM2CPWL-■ RM4CPWL-■	HH52B-L HH53B-L HH54B-L HH52BW-L HH54BW-L	RM2CBL-■ RM3CBL-■ RM4CBL-■ RM2CBWL-■ RM4CBWL-■		
	With surge suppression diode	Single Bifurcated	2PDT 3PDT 4PDT 2PDT 4PDT	HH52P-F HH53P-F HH54P-F HH52PW-F HH54PW-F	RM2CPF-■ RM3CPF-■ RM4CPF-■ RM2CPWF-■ RM4CPWF-■	HH52B-F HH53B-F HH54B-F HH52BW-F HH54BW-F	RM2CBF-■ RM3CBF-■ RM4CBF-■ RM2CBWF-■ RM4CBWF-■	HH52S-F HH53S-F HH54S-F HH52SW-F HH54SW-F	RM2CSF-■ RM3CSF-■ RM4CSF-■ RM2CSWF-■ RM4CSWF-■
	With surge suppression diode and LED	Single Bifurcated	2PDT 3PDT 4PDT 2PDT 4PDT	HH52P-FL HH53P-FL HH54P-FL HH52PW-FL HH54PW-FL	RM2CPG-■ RM3CPG-■ RM4CPG-■ RM2CPWG-■ RM4CPWG-■	HH52B-FL HH53B-FL HH54B-FL HH52BW-FL HH54BW-FL	RM2CBG-■ RM3CBG-■ RM4CBG-■ RM2CBWG-■ RM4CBWG-■		
	With surge suppression CR	Single Bifurcated	2PDT 3PDT 4PDT 2PDT 4PDT	HH52P-CR HH53P-CR HH54P-CR HH52PW-CR HH54PW-CR	RM2CPC-■ RM3CPC-■ RM4CPC-■ RM2CPWC-■ RM4CPWC-■	HH52B-CR HH53B-CR HH54B-CR HH52BW-CR HH54BW-CR	RM2CBC-■ RM3CBC-■ RM4CBC-■ RM2CBWC-■ RM4CBWC-■	HH52S-CR HH53S-CR HH54S-CR HH52SW-CR HH54SW-CR	RM2CSC-■ RM3CSC-■ RM4CSC-■ RM2CSWC-■ RM4CSWC-■
	With surge suppression CR and LED	Single Bifurcated	2PDT 3PDT 4PDT 2PDT 4PDT	HH52P-CRL HH53P-CRL HH54P-CRL HH52PW-CRL HH54PW-CRL	RM2CPA-■ RM3CPA-■ RM4CPA-■ RM2CPWA-■ RM4CPWA-■	HH52B-CRL HH53B-CRL HH54B-CRL HH52BW-CRL HH54BW-CRL	RM2CBA-■ RM3CBA-■ RM4CBA-■ RM2CBWA-■ RM4CBWA-■		
	Magnetically held	Single Bifurcated	2PDT 2PDT	HH52P-R HH52PW-R	RM2CPR-■ RM2CPWR-■	HH52B-R HH52BW-R	RM2CBR-■ RM2CBWR-■	HH52S-R HH52SW-R	RM2CSR-■ RM2CSWR-■
High capacity	Without LED	Single	2PDT 4PDT	HH52PU HH54PU	RM2CPU-■ RM4CPU-■	HH52BU HH54BU	RM2CBU-■ RM4CBU-■	HH52SU HH54SU	RM2CSU-■ RM4CSU-■
	With LED	Single	2PDT 4PDT	HH52PU-L HH54PU-L	RM2CPUL-■ RM4CPUL-■	HH52BU-L HH54BU-L	RM2CBUL-■ RM4CBUL-■		
	With surge suppression diode	Single	2PDT 4PDT	HH52PU-F HH54PU-F	RM2CPUF-■ RM4CPUF-■	HH52BU-F HH54BU-F	RM2CBUF-■ RM4CBUF-■	HH52SU-F HH54SU-F	RM2CSUF-■ RM4CSUF-■
	With surge suppression diode and LED	Single	2PDT 4PDT	HH52PU-FL HH54PU-FL	RM2CPUG-■ RM4CPUG-■	HH52BU-FL HH54BU-FL	RM2CBUG-■ RM4CBUG-■		
	With surge suppression CR	Single	2PDT 4PDT	HH52PU-CR HH54PU-CR	RM2CPUC-■ RM4CPUC-■	HH52BU-CR HH54BU-CR	RM2CBUC-■ RM4CBUC-■	HH52SU-CR HH54SU-CR	RM2CSUC-■ RM4CSUC-■
	With surge suppression CR and LED	Single	2PDT 4PDT	HH52PU-CRL HH54PU-CRL	RM2CPUA-■ RM4CPUA-■	HH52BU-CRL HH54BU-CRL	RM2CBUA-■ RM4CBUA-■		

Notes: 1.

Example: RM2CPJ-■ (with gold-plated silver contact) RM2CPJ-■ (with silver contact: standard)

UL, CSA, and TÜV approved.
 Bifurcated contacts are all gold-plated silver contacts.
 Enter the coil voltage code in the ■ mark.
 For types with single contact other than high-capacity types, types with gold-plated silver contact are available on request. To order these types, add J to the ordering code. Refer to the ordering code system.

Classification	on	Contact form and arrangement	Mounting Plug-in Type	Ordering code	PC board Type	Ordering code	Flange Type	Ordering code
With extra pick-up coil	Without LED With LED	Single 2PE Bifurcated 2PE Single 2PE Bifurcated 2PE	T HH54-2PW T HH54-2P-L	RM42P-■ RM42PW-■ RM42PL-■ RM42PWL-■	HH54-2B HH54-2BW HH54-2B-L HH54-2BW-L	RM42B-■ RM42BW-■ RM42BL-■ RM42BWL-■	HH54-2S HH54-2SW	RM42S-■ RM42SW-■
	With surge suppression diode With surge suppression diode and LED	Single 2PE Bifurcated 2PE Single 2PE Bifurcated 2PE	T HH54-2PW-F T HH54-2P-FL	RM42PF-■ RM42PWF-■ RM42PG-■ RM42PWG-■	HH54-2B-F HH54-2BW-F HH54-2B-FL HH54-2BW-FL	RM42BF-■ RM42BWF-■ RM42BG-■ RM42BWG-■	HH54-2S-F HH54-2SW-F	RM42SF-■ RM42SWF-■
	With surge suppression CR With surge suppression CR and LED	Single 2PC Bifurcated 2PC Single 2PC Bifurcated 2PC	T HH54-2PW-CR T HH54-2P-CRL	RM42PC-■ RM42PWC-■ RM42PA-■ RM42PWA-■	HH54-2B-CR HH54-2BW-CR HH54-2B-CRL HH54-2BW-CRL	RM42BC-■ RM42BWC-■ RM42BA-■ RM42BWA-■	HH54-2S-CR HH54-2SW-CR	RM42SC-■ RM42SWC-■

Example: RM2CPJ-■ (with gold-plated silver contact)
RM2CP-■ (with silver contact: standard)

Notes: • Bifurcated contacts are all gold-plated silver contacts.

• Enter the coil voltage code in the ■ mark.

• For types with single contact other than high-capacity types, types with gold-plated silver contact are available on request. To order these types, add J to the ordering code. Refer to the ordering code

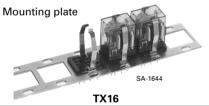
■ Sockets

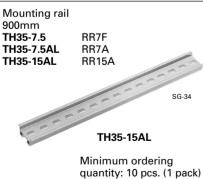
Description	Standard ³	+			appression dev		•	1	•	1	Used
				CR circuit		100V Z-trap		200V Z-trap		Mass	with
	Type	Ordering	Mass	Type	Ordering	Type	Ordering	Type	Ordering	(g)	
		code	(g)		code		code		code		
Soldering	TP58	RX58	9	_	_	_	_	_	_		HH52P
Ü	TP511	RX51	10	_	_	_	_	_	_		HH53P
	TP514	RX54	10	_	_	-	_	_	_		HH54P
PC board	TP58B	RX58B1	9	_	_	_	_	_	_		HH52P
	TP511B	RX51B1	9.5	_	_	_	_	_	_		HH53P
	TP514B	RX54B1	9.5	_	_	-	_	-	_		HH54P
Wire wrap	TP58R2	RX58R2	10.5	_	_	_	_	_	_		HH52P
•	TP511R2	RX51R2	11.5	_	_	_	_	_	_		HH53P
	TP514R2	RX54R2	12.5	_	_	-	_	-	_		HH54P
Rail mounting	TP58X2	RX58X2	49	TP58X2-CR	RX58X2-CR	TP58X2-Z/100	RX58X2-C1	TP58X2-Z/200	RX58X2-C2	49	HH52P
screw terminal	TP511X2	RX51X2	50	TP511X2-CR	RX51X2-CR	TP511X2-Z/100	RX51X2-C1	TP511X2-Z/200	RX51X2-C2	50	HH53P
M3.5	TP514X2	RX54X2	62	TP514X2-CR	RX54X2-CR	TP514X2-Z/100	RX54X2-C1	TP514X2-Z/200	RX54X2-C2	62	HH54P
Rail mounting	TP58X1	RX58X1	32	TP58X1-CR	RX58X1-CR	_	_	_	_	32	HH52P
screw terminal	_	_	_	_	_	_	_	_	_	-	_
M3.0	TP514X1	RX54X1	49	TP514X1-CR	RX54X1-CR	-	-	_	-	49	HH54P

Note: *UL, CSA and TÜV approved

■ Mounting plates and rails

Type	Ordering	Socket capacity*
	code	(Max.)
TX01	RZ01	1 pc.
TX16	RZ16	16 pcs.
TX19	RZ19	19 pcs.
TX18C	RZ18C	18 pcs.
TX36C ₁	RZ36C1	36 pcs.

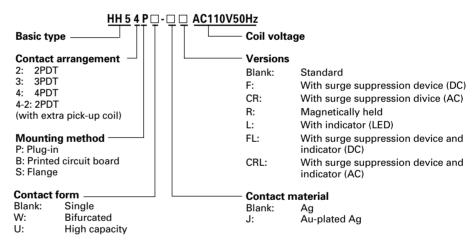


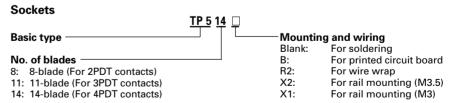


Notes: Plates will accept both soldering terminal and wire wrap terminal sockets.

* No. of relays to be mounted directly.

■ Type number nomenclature Relays





■ Ordering information

Specify the following:

- 1. Ordering code or type number
- 2. Coil voltage
- Socket type number

■ Specifications

Basic type		HH52 HH53	HH54	HH52U	HH54U	HH52W	HH54W			
Contact form	Single		Bifurcated	Bifurcated						
Rated thermal current (A)	5	3	7	5	5	3				
Rated insulation voltage		250V		·	<u>'</u>					
Pick-up voltage (at 20° C)	80% of rate 75% of rate	U								
Drop-out voltage (at 20° C)	30% of rate 10% of rate	U								
Max. power supply voltage		110% of rat	110% of rated voltage							
Operating temperature	–55 to +70°C, no icing (–25 to +60°C for with operating indicator)									
Dielectric strength		2000V AC rms, 1 minute between coil and contact 2000V AC rms, 1 minute between poles 1000V AC rms, 1 minute between open contacts 2000V AC rms, 1 minute between socket terminals								
Insulation resistance		100MΩ (500V DC megger)								
Operating time		20ms or less								
Vibration		Mechanical and malfunction durability: 10 to 55Hz, 1mm double amplitude								
Shock	Malfunction durability: 200m/s² Mechanical durability: 1000m/s²									
Durability	AC ratings: 50 million operations DC ratings: 100 million operations									
Contact resistance (before	use)	50m $Ω$ max.								
Mass	Approx. 33g									

Notes: HH52PW, 54PW, HH54PU: Au-plated Ag contact as standard HH52P, 53P, 54P: Ag contact as standard

■ Coil characteristics

· AC coil

Order voltage code	Rated voltage	Rated current (mA)		Coil resistance	Coil color	Power consumption (VA)	
	(V)	50Hz	60Hz	(Ω)		50Hz	60Hz
AC6 AC12 AC24 AC48	6 12 24 48	200 100 50 25	167 83 42 21	10 46 187 746	Clear Clear Clear Clear	1.2	1.0
AC100 AC110 AC200 AC220	100/110 110/120 200/220 220/240	12/12.7 10.9/11.7 6/6.4 5.5/5.8	10/10.9 9.1/10 5/5.5 4.5/5	3680 4320 13400 17200	Green Clear Yellow Clear	1.2/1.4	1.0/1.2

Note: Other voltages up to 240V AC are also available, contact FUJI.

• DC coil

Order voltage code	Voltage	Rated current	Coil resistance	Coil color	Power consumption
	(V)	(mA)	(Ω)		(W)
DC6	6	150	40	Clear	0.9
DC12	12	75	160	Black	
DC24	24	37	650	Grape	
DC48	48	18.5	2600	Red	
DC100	100/110	9.1/10	11000	Blue	

Note: Other voltages up to 130V DC are also available on request, contact FUJI.

■ Operating current and electrical durability

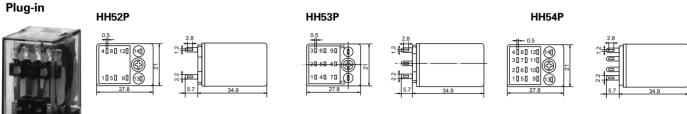
Voltage	Make	Dayson footon on	Break Current	Power factor or	Electrical life (10 ³ operations)					
	Current (A)	Power factor or time constant	(A)	time constant	HH52U	HH52, HH53	HH54 HH54U	HH52W	HH54W	
200V AC Ind. load	10 5 3	$Cos\phi = 0.7$	1 0.5 0.3	$\cos \phi = 0.3 \text{ to } 0.4$	1000 2000 3500	400 1000 1700	80 200 330	150 400 660	- - 80	
100V AC Ind. load	10 5 3	$Cos\phi = 0.7$	1 0.5 0.3	$\cos \phi = 0.3 \text{ to } 0.4$	1500 3300 6000	700 1500 2800	130 280 500	260 560 1000	- 70 120	
200V AC Res. load	3 1	Cosφ = 1	3 1	Cosφ = 1	1200 4000	600 2000	150 500	300 1000	- 130	
100V AC Res. load	3 1	Cosφ = 1	3	Cosφ = 1	1700 6000	1000 3400	250 900	500 1800	60 120	
24V DC Ind. load	1 0.2	T=15msec.	1 0.2	T=15msec.	1000 8400	500 4000	150 1200	300 2400	_ 400	
24V DC Res. load	3 1	T=0msec.	3	T=0msec.	1000 4500	400 1600	100 400	200 800	_ 100	

■ Ratings (UL and CSA)

Basic type	Voltage	Single-phase*	Resistive load	Inductive load	Remarks
		motor (HP)	(A)	(A)	(polarity)
HH52P, 52B 52S	120V AC	1/6	5	1.5	Same polarity between adjacent
HH53P, 53B 53S	240V AC	1/4	5	_	contacts for inductive load
	30V DC	_	5	2(15ms)	Opposite polarity for others
	120V DC	_	0.3	0.2(15ms)	
HH54P, 54B, 54S	120V AC	1/10	3	1	Same polarity between adjacent
	240V AC	1/4	3	_	contacts for inductive load
	30V DC	_	3	2(15ms)	Opposite polarity for others
	120V DC	_	0.3	0.2(15ms)	
HH52PU, 52BU, 52SU	120V AC	1/4	7	1.5	Same polarity between adjacent
	240V AC	3/4	7	_	contacts for inductive load
	30V DC	_	7	2(15ms)	Opposite polarity for others
	120V DC	_	0.3	0.2(15ms)	
HH54PU, 54BU, 54SU	120V AC	1/8	5	1	Same polarity between adjacent
	240V AC	1/4	5	_	contacts for inductive load
	30V DC	_	5	2(15ms)	Opposite polarity for others
	120V DC	_	0.3	0.2(15ms)	
HH52PW, 52BW, 52SW	120V AC	1/6	5	1.5	Same polarity between adjacent
	240V AC	1/4	5	_	contacts for inductive load
	30V DC	_	5	2(15ms)	Opposite polarity for others
	120V DC	_	0.3	0.2(15ms)	
HH54PW, 54BW, 54SW	120V AC	_	3	1	Same polarity between adjacent
	240V AC	-	3	-	contacts for inductive load
	30V DC	-	3	2(15ms)	Opposite polarity for others
	120V DC	_	0.2	0.2(15ms)	

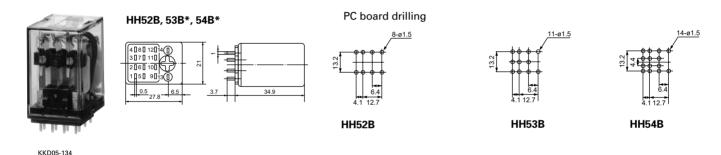
Note: *UL and CSA approvals only.

■ Dimensions, mm/Relays



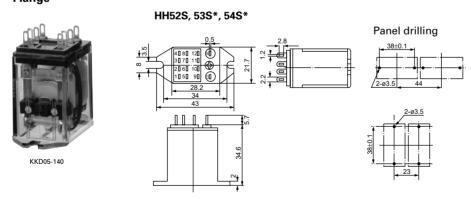
P.C. board

KKD05-132



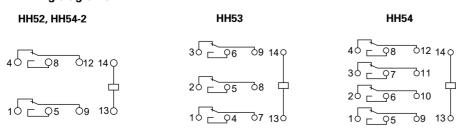
* Number of terminals are different from HH52B.

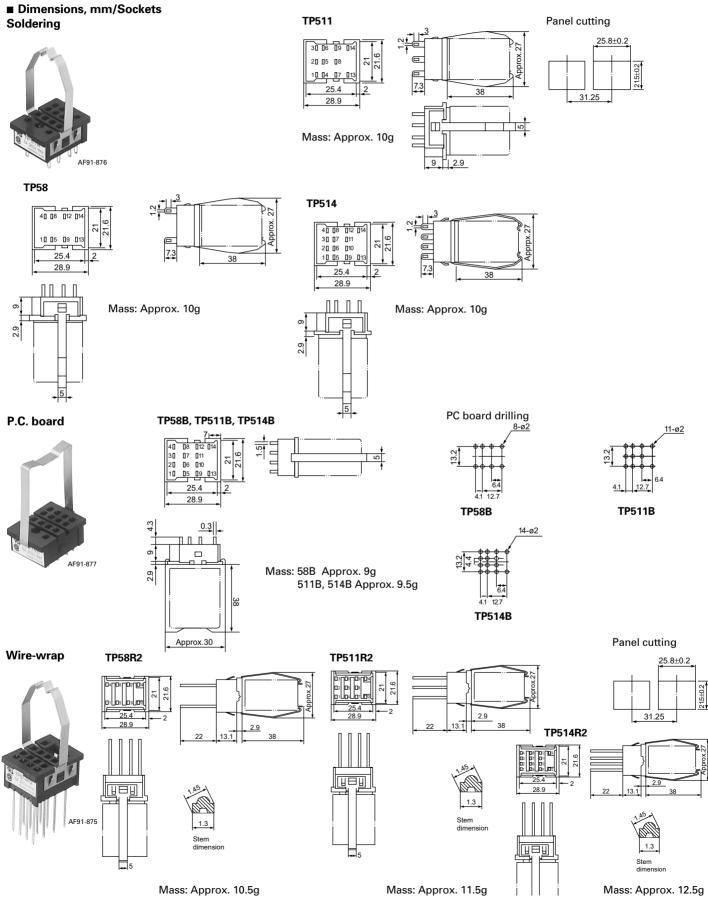
Flange



* Number of terminals are different from HH52S.

■ Wiring diagrams



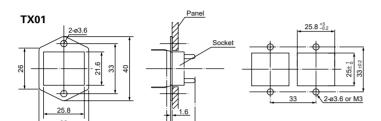


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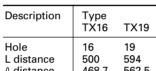
Mounting plates

FUJI can supply very convenient mounting plates which can accept either 1, 16, 18, 19, or 36 panel mounting miniature relays.

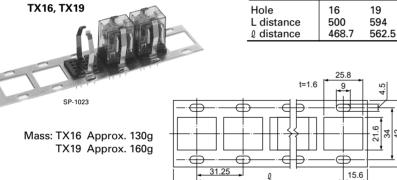
These mounting plates use plug-in relays with sockets, which are held in position by "snap-in" clips.



Mass: Approx. 5.8g



Panel cutting



• Finger protection covers

 Quick-mounting type cover The cover can be quickly mounted

The cover can be quickly mounted on or removed from the TP series socket used with HH series control relay, even if sockets are mounted side-by-side.

Mountable any time
 The cover can be mounted on or removed from the socket at any time before or after wiring the terminals.

■ Types

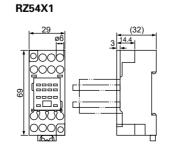
RZ52X1

Туре	Used with
RZ52X1	TP58X1 Socket for HH52P miniature control relay
RZ54X1	TP514X1 Socket for HH54P miniature control relay
FX14X2	TP58X2 socket for HH52P miniature control relay TP514X2 socket for HH54P miniature control relay

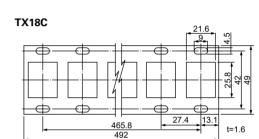
■ Dimensions, mm

Mass: Approx. 2g

22 Ø6 14.3 14.3 14.3 14.3 15.5 16.5

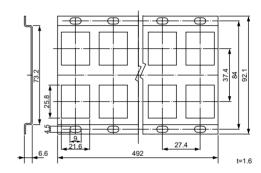


Mass: Approx. 2.5g



Mass: Approx. 155g

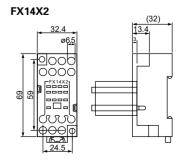
TX36C1



Mass: Approx. 325g

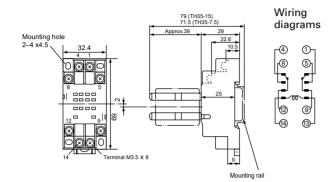


FX14X2



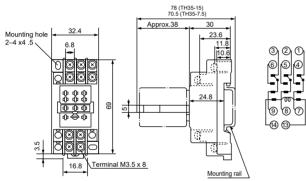
Mass: Approx. 2.7g

- Dimensions, mm Sockets for rail mounting
- Screw terminal M3.5 TP58X2 (for HH52P)



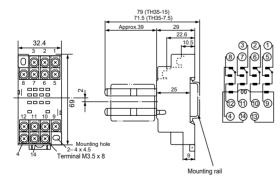
Mass: 49g

TP511X2 (for HH53P)



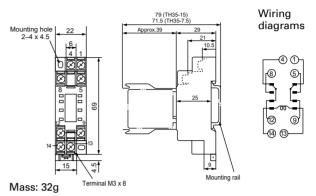
Mass: 50g

TP514X2 (for HH54P)

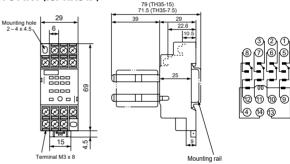


Mass: 62g

• Screw terminal M3 TP58X1 (for HH52P)



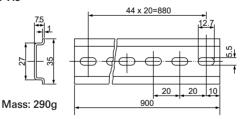
TP514X1 (for HH54P)



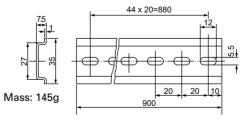
Mass: 49g

Mounting rails

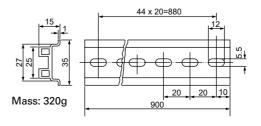
TH35-7.5



TH35-7.5AL



TH35-15AL



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