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

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:

Туре	Contact	Rated thermal
	arrangement	current
HH52U	2PDT	7 Amps
HH52, 52W	2PDT	5 Amps
HH53	3PDT	5 Amps
HH54U	4PDT	5 Amps
HH54, 54W	4PDT	3 Amps





Bifurcated contact

Single contact

Coils

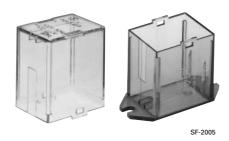
Coils are available with nominal voltages within the following ranges.

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

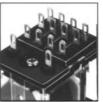
All miniature relays are enclosed in sturdy heat-resistant polycarbonate covers providing protection against dust and dirt.



Standard

Flange mounting

Terminals





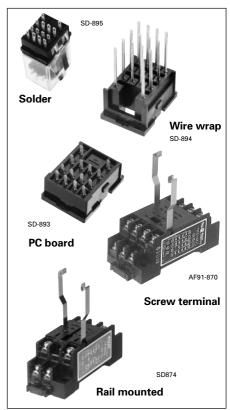
Plug-in type terminal F

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.

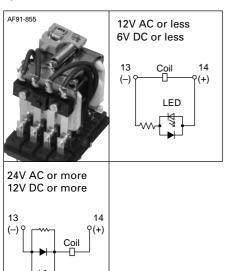


■ Versions

Operating status indicator

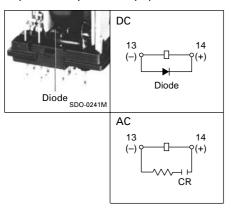
All relays can be supplied on request with a visual indicating signal-a light emitting diode (LED).

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.



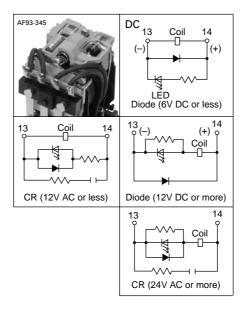
Surge suppression

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

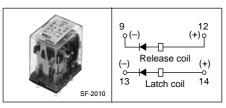
This type has a built-in operation indicator and suge suppressor.



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. Pick-up voltage: 65% of rated 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 9 10

(1)	p,	·^	d	uct	Ca.	ton	'n	n
w	ГΙ	O	u	ucı	Ca	LEC	w	ı٧

Code	Description	
R	Control relay	
② Series category		
Code	Description	
M	Miniature control relay (HH52 to HH54)	
Р	Miniature power relay (HH62 to HH64)	
С	General purpose relay (HH22 to HH24)	

34 Contact arrangement

	ee contact arrangement				
Code Contact 3 4 arrangement					
2 C 2PDT 3 C 3PDT 4 C 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	Plug-in mounting PC board mounting
S	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

		- 1	
Code			Coil voltage
	9	10	
	Α	Α	6V AC 50/60Hz
	Α	В	12V AC 50/60Hz
	Α	E	24V AC 50/60Hz
	Α	F	48V AC 50/60Hz
	Α	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	Е	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		

34 Application				
Code		Туре		
3	4			
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

Blank B 1 R 2 Wire wrap Surface mounting screw terminal (M3.5) S 0 For HH22, 23, 24 Rail mounting screw terminal (M3.5) X 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	C o	de ⑥	Description
R 2 Wire wrap Surface mounting screw terminal (M3.5) S 0 For HH22, 23, 24 Rail mounting screw terminal (M3.5) X 0 For HH22, 23, 24 X 2 For HH52, 53, 54, HH62, 63, 64 Rail mounting screw terminal (M3)	Bla	nk	Soldering
Surface mounting screw terminal (M3.5) S 0 For HH22, 23, 24 Rail mounting screw terminal (M3.5) X 0 For HH22, 23, 24 X 2 For HH52, 53, 54, HH62, 63, 64 Rail mounting screw terminal (M3)		1	PC board
(M3.5) S 0 For HH22, 23, 24 Rail mounting screw terminal (M3.5) X 0 For HH22, 23, 24 X 2 For HH52, 53, 54, HH62, 63, 64 Rail mounting screw terminal (M3)	R	2	Wire wrap
Rail mounting screw terminal (M3.5) X 0 For HH22, 23, 24 X 2 For HH52, 53, 54, HH62, 63, 64 Rail mounting screw terminal (M3)			
(M3.5) X 0 For HH22, 23, 24 X 2 For HH52, 53, 54, HH62, 63, 64 Rail mounting screw terminal (M3)	S	0	For HH22, 23, 24
Rail mounting screw terminal (M3)			· ·
Rail mounting screw terminal (M3)	Χ	0	For HH22, 23, 24
(M3)	Χ	2	For HH52, 53, 54, HH62, 63, 64
X 1 For HH52, 53, 54			· ·
	Х	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)					
©® Approvals							

		•
Co 9	de ®	Standards
Z Z Z Z	U S T	UL UL/CSA TÜV
Z	Ĺ	Lloyd

■ Versions Relay

Classification	on	Contact form and arrangement		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. UL, CSA, and TÜV approved.

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

Classification		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	Bifurcated 2	2PDT	HH54-2P HH54-2PW HH54-2P-L HH54-2PW-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	Bifurcated 2	2PDT	HH54-2P-F HH54-2PW-F HH54-2P-FL HH54-2PW-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	Bifurcated 2	2PDT	HH54-2P-CR HH54-2PW-CR HH54-2P-CRL HH54-2PW-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 system.

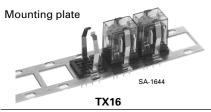
■ Sockets

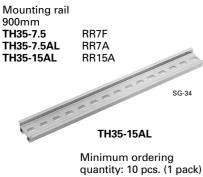
Description	Standard ⁴	*			ppression dev			1		1	Used
	Туре	Ordering code	Mass (g)	CR circuit Type	Ordering code	Type	Ordering code	200V Z-trap Type	Ordering code	Mass (g)	with
Soldering	TP58 TP511 TP514	RX58 RX51 RX54	9 10 10	- - -	- - -	- - -	- - -	- - -	- - -		HH52P HH53P HH54P
PC board	TP58B TP511B TP514B	RX58B1 RX51B1 RX54B1	9 9.5 9.5	_ _ _	- - -	- - -	- - -	- - -	- - -		HH52P HH53P HH54P
Wire wrap	TP58R2 TP511R2 TP514R2	RX58R2 RX51R2 RX54R2	10.5 11.5 12.5	_ _ _	- - -	- - -	- - -	- - -	- - -		HH52P HH53P HH54P
Rail mounting screw terminal M3.5	TP58X2 TP511X2 TP514X2	RX58X2 RX51X2 RX54X2	49 50 62	TP58X2-CR TP511X2-CR TP514X2-CR	RX58X2-CR RX51X2-CR RX54X2-CR	TP58X2-Z/100 TP511X2-Z/100 TP514X2-Z/100		TP58X2-Z/200 TP511X2-Z/200 TP514X2-Z/200		49 50 62	HH52P HH53P HH54P
Rail mounting screw terminal M3.0	TP58X1 - TP514X1	RX58X1 - RX54X1	32 - 49	TP58X1-CR - TP514X1-CR	RX58X1-CR - RX54X1-CR	- - -	- - -	- - -	- - -	32 - 49	HH52P - 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.

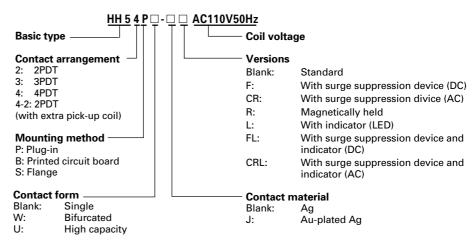


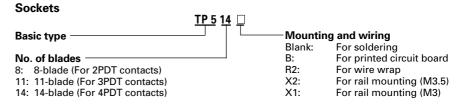


Notes: Plates will accept both soldering terminal and wire wrap terminal sockets.

* 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
- 3. Socket type number

■ Specifications

Basic type	HH52 HH53	HH54	HH52U	HH54U	HH52W	HH54W				
Contact form	Single			· ·	Bifurcated					
Rated thermal current (A)		5	3	7	5	5	3			
Rated insulation voltage	250V	'	<u> </u>	<u>'</u>	<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	•								
Max. power supply voltage	9	110% of rat	ed voltage							
Operating temperature		-55 to +70°C, no icing (-25 to +60°C for with operating indicator)								
Dielectric strength		2000V AC r 1000V AC r	rms, 1 minut rms, 1 minut	e between coil a e between pole e between oper e between sock	s n contacts					
Insulation resistance		100M Ω (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	Durability Mechanical			perations operations						
Contact resistance (before	$50 m\Omega$ 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			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 (V)	Rated current (mA)	Coil resistance (Ω)	Coil color	Power consumption (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

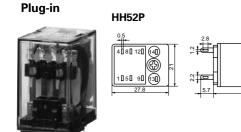
Voltage	Make	Power factor or	Break Current	Power factor or	Electrical	Electrical life (× 10³ operations)					
	Current (A)	time constant	(A)	time constant	HH52U	HH52, HH53	HH54 HH54U	HH52W	HH54W		
200V AC Ind. load	10 5 3	Cosφ = 0.7	1 0.5 0.3	$\cos \phi = 0.3 \text{ to } 0.4$	1000 2000 3500	400 1000 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	$\cos \phi = 1$	3	$Cos\phi = 1$	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 1	T=0msec.	1000 4500	400 1600	100 400	200 800	- 100		

■ Ratings (UL and CSA)

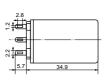
Basic type	Voltage	Single-phase* motor (HP)	Resistive load (A)	Inductive load (A)	Remarks (polarity)		
HH52P, 52B 52S HH53P, 53B 53S	120V AC 240V AC 30V DC 120V DC	1/6 1/4 _	5 5 5 0.3	1.5 - 2(15ms) 0.2(15ms)	Same polarity between adjacent contacts for inductive load Opposite polarity for others		
HH54P,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

Note: *UL and CSA approvals only.

■ Dimensions, mm/Relays

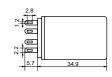






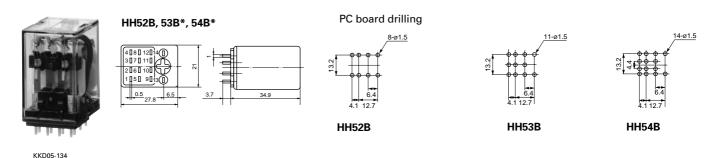


HH54P



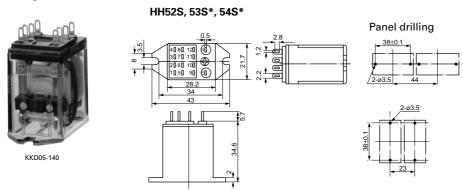
P.C. board

KKD05-132



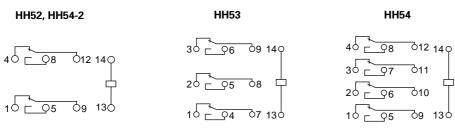
* Number of terminals are different from HH52B.

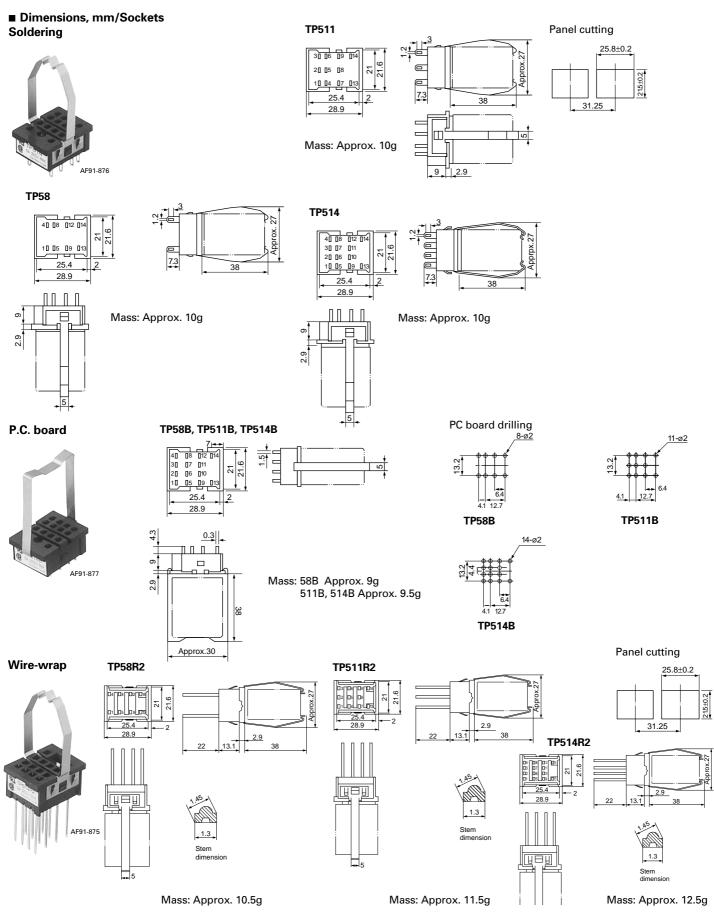
Flange



* Number of terminals are different from HH52S.

■ Wiring diagrams



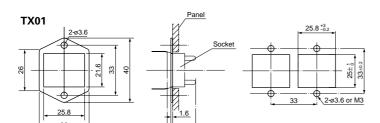


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Mounting plates

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

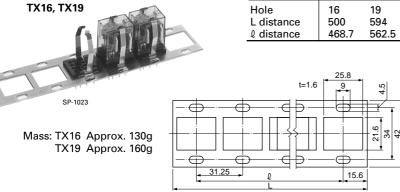
 Description
 Type TX16
 TX19

 Hole
 16
 19

 L distance
 500
 594

 A distance
 500
 594

Panel cutting



• Finger protection covers

Quick-mounting type cover

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.

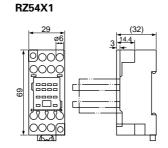
■ Types

RZ52X1

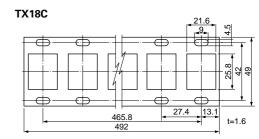
Type	Used with
RZ52X1	TP58X1 Socket for HH52P miniature control relay
RZ54X1	TP514X1 Socket for HH54P miniature control relay
FX14X2	TP58X2 socket for HH52P miniature control relay TP514X2 socket for HH54P miniature control relay

■ Dimensions, mm

22 Ø6 14.3

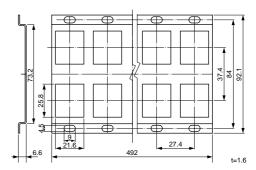


Mass: Approx. 2g Mass: Approx. 2.5g



Mass: Approx. 155g

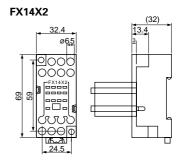
TX36C1



Mass: Approx. 325g

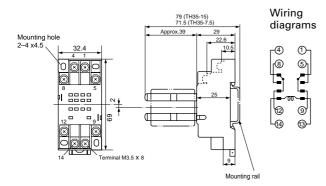


FX14X2



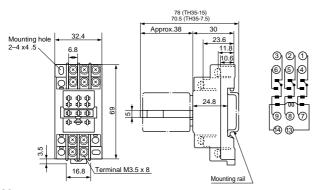
Mass: Approx. 2.7g

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



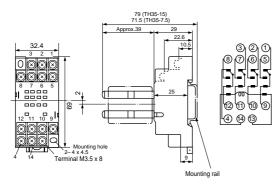
Mass: 49g

TP511X2 (for HH53P)



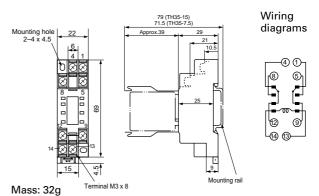
Mass: 50g

TP514X2 (for HH54P)

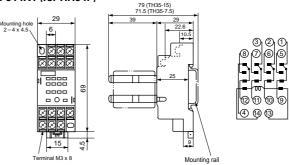


Mass: 62g

• Screw terminal M3 TP58X1 (for HH52P)



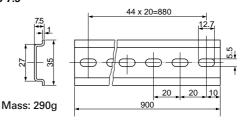
TP514X1 (for HH54P)



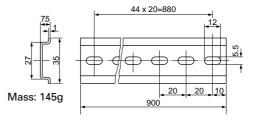
Mass: 49g

Mounting rails

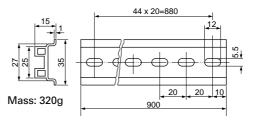
TH35-7.5



TH35-7.5AL



TH35-15AL



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