

Industrial Control Relays

Miniature control relays

HH52, 53, 54

■ Sockets

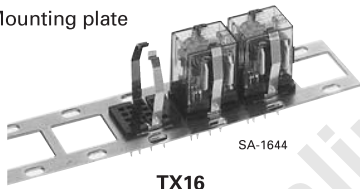
Description	Standard *			With surge suppression device						Used with	
	Type	Ordering code	Mass (g)	CR circuit Type	Ordering code	100V Z-trap Type	Ordering code	200V Z-trap Type	Ordering code		Mass (g)
Soldering	TP58	RX58	9	-	-	-	-	-	-	-	HH52P
	TP511	RX51	10	-	-	-	-	-	-	-	HH53P
	TP514	RX54	10	-	-	-	-	-	-	-	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 screw terminal M3.5	TP58X2	RX58X2	49	TP58X2-CR	RX58X2-CR	TP58X2-Z/100	RX58X2-C1	TP58X2-Z/200	RX58X2-C2	49	HH52P
	TP511X2	RX51X2	50	TP511X2-CR	RX51X2-CR	TP511X2-Z/100	RX51X2-C1	TP511X2-Z/200	RX51X2-C2	50	HH53P
	TP514X2	RX54X2	62	TP514X2-CR	RX54X2-CR	TP514X2-Z/100	RX54X2-C1	TP514X2-Z/200	RX54X2-C2	62	HH54P
Rail mounting screw terminal M3.0	TP58X1	RX58X1	32	TP58X1-CR	RX58X1-CR	-	-	-	-	32	HH52P
	-	-	-	-	-	-	-	-	-	-	-
	TP514X1	RX54X1	49	TP514X1-CR	RX54X1-CR	-	-	-	-	49	HH54P

Note: *UL, CSA and TÜV approved

■ Mounting plates and rails

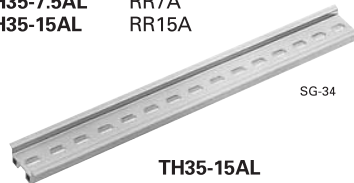
Type	Ordering code	Socket capacity* (Max.)
TX01	RZ01	1 pc.
TX16	RZ16	16 pcs.
TX19	RZ19	19 pcs.
TX18C	RZ18C	18 pcs.
TX36C1	RZ36C1	36 pcs.

Mounting plate



Mounting rail 900mm

TH35-7.5	RR7F
TH35-7.5AL	RR7A
TH35-15AL	RR15A

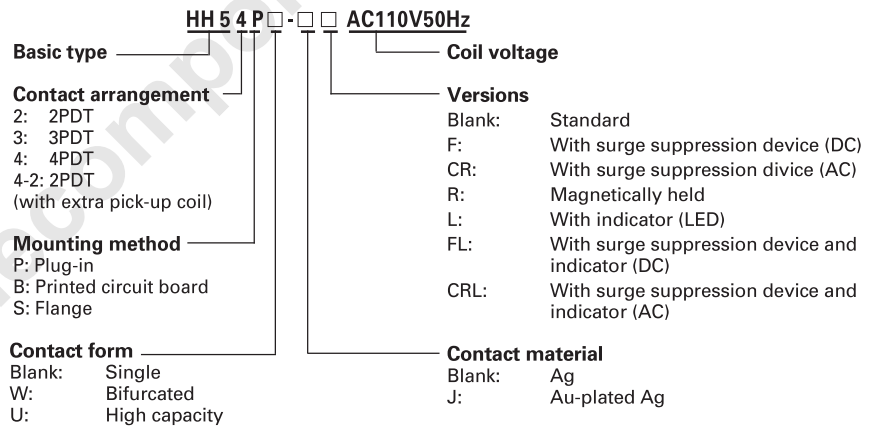


Minimum ordering quantity: 10 pcs. (1 pack)

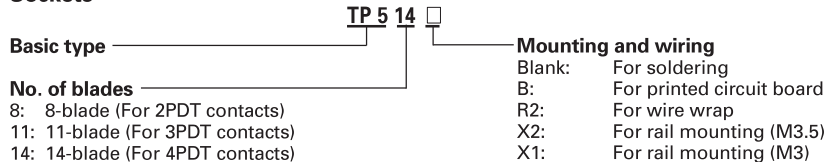
Notes: Plates will accept both soldering terminal and wire wrap terminal sockets.

* No. of relays to be mounted directly.

■ Type number nomenclature Relays



■ Sockets



■ Ordering information

- Specify the following:
- Ordering code or type number
 - Coil voltage
 - 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					
Pick-up voltage (at 20° C)	AC	80% of rated voltage				
	DC	75% of rated voltage				
Drop-out voltage (at 20° C)	AC	30% of rated voltage				
	DC	10% of rated voltage				
Max. power supply voltage	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/s ² Mechanical durability: 1000m/s ²					
Durability	Mechanical	AC ratings: 50 million operations DC ratings: 100 million operations				
Contact resistance (before use)	50mΩ 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 (V)	Rated current (mA)		Coil resistance (Ω)	Coil color	Power consumption (VA)	
		50Hz	60Hz			50Hz	60Hz
AC6	6	200	167	10	Clear	1.2	1.0
AC12	12	100	83	46	Clear		
AC24	24	50	42	187	Clear		
AC48	48	25	21	746	Clear		
AC100	100/110	12/12.7	10/10.9	3680	Green	1.2/1.4	1.0/1.2
AC110	110/120	10.9/11.7	9.1/10	4320	Clear		
AC200	200/220	6/6.4	5/5.5	13400	Yellow		
AC220	220/240	5.5/5.8	4.5/5	17200	Clear		

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.