


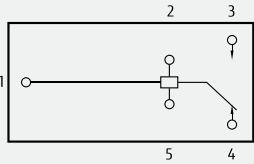
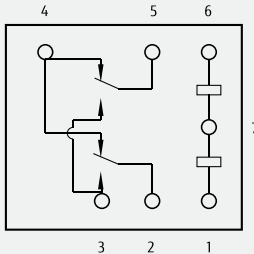
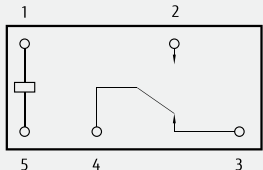


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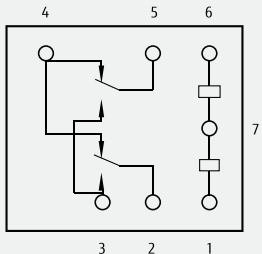
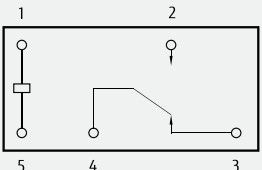
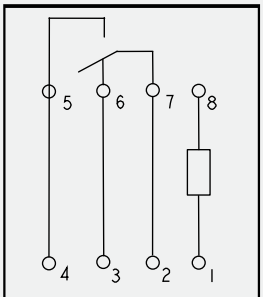
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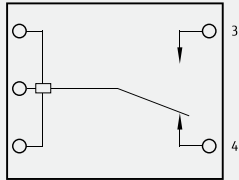
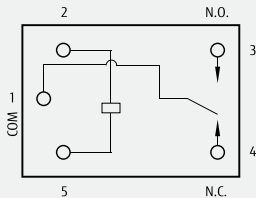
Automotive relays (25A)

Series Name	FTR-G1	FTR-P2	FTR-P3
			
Description	25A Compact Relay	25A Low Noise H-bridge Relay	25A Compact Relay
Features	<ul style="list-style-type: none"> 0.25mm contact gap Average acoustic noise level 60db @ 5cm 	<ul style="list-style-type: none"> Pin compatible with FTR-P4 Average acoustic noise level 50db @ 5cm 	<ul style="list-style-type: none"> 0.25 and 0.6mm contact gap types THR type available High temp. types available (+125 °C) Pin compatible with FTR-P5
Dimensions (W x L x H mm)	6.6 x 13.7 x 13.5	16.5 x 21.0 x 18.0	7.2x17.4x13.5, (THR: 7.2x17.4x14.1)
Weight (approx.)	3.5 g	13.0 g	5.0 g
Contact form	1 c	1c x 2 (H-bridge)	1 c, (THR: 1a, 1c)
Contact rating	25A, 14VDC locked motor load	25A, 14VDC, locked motor load	25A, 14VDC, locked motor load
Expected life on load example	<p>14VDC, 25A window motor load 100x10³ ops.</p> <p>14VDC, 20A, door lock motor load 100x10³ ops.</p>	14VDC, 25A, locked motor load 100x10 ³ ops.	14VDC, 25A, locked motor load 100x10 ³ ops.
Operating temperature	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C / +125 °C
Coil voltage (DC)	9 to 12 V	9 to 12 V	9 to 12 V
Nominal coil power	0.64 W	0.45 W	0.6 W / 0.8 W
Dielectric strength (1 min.)	Open contacts: 500VAC Coil and contacts: 500VAC	Open contacts: 500VAC Coil and contacts: 500VAC	Open contacts: 500VAC Coil and contacts: 500VAC
Mounting	Through hole	Through hole	Through hole / THR
Terminal layout (bottom view)			 1a does not carry #3 contact




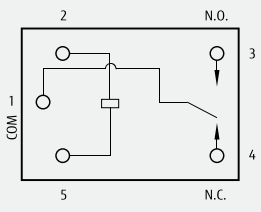
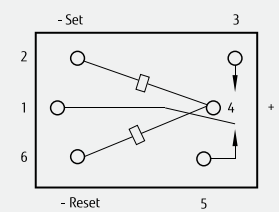
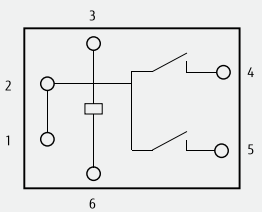
Automotive relays (25A)

Series Name	FTR-P4	FTR-P5	FTR-P6
			
Description	25A H-bridge Relay	25A Low Noise Compact Relay	25A Surface Mount Relay
Features	<ul style="list-style-type: none"> ■ 0.25 contact gap types ■ Pin compatible with FTR-P2 	<ul style="list-style-type: none"> ■ Pin compatible with FTR-P3 ■ Average acoustic noise level 50db @ 5cm 	<ul style="list-style-type: none"> ■ 0.25mm contact gap ■ Average acoustic noise level 60db @ 5cm ■ SMD
Dimensions (W x L x H mm)	14.2 x 17.4 x 13.5	9.7 x 20.4 x 16.7	9.0 x 12.0 x 10.3
Weight (approx.)	10.0 g	7.0 g	3.0 g
Contact form	1 cx2 (H-bridge)	1 c	1 c
Contact rating	25A, 14VDC, locked motor load	25A, 14VDC, locked motor load	25A, 14VDC
Expected life on load example	14VDC, 25A, locked motor load 100x10 ³ ops.	14VDC, 25A, locked motor load 100x10 ³ ops.	14VDC, 25A, locked motor load 100x10 ³ ops.
Operating temperature	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C
Coil voltage (DC)	9 to 12 V	9 to 12 V	10 to 12 V
Nominal coil power	0.6 W	0.45 W	0.8 W
Dielectric strength (1 min.)	Open contacts: 500VAC Coil and contacts: 500VAC	Open contacts: 500VAC Coil and contacts: 500VAC	Open contacts: 500VAC Coil and contacts: 500VAC
Mounting	Through hole	Through hole	Surface Mount
Terminal layout (bottom view)			 (Top view)




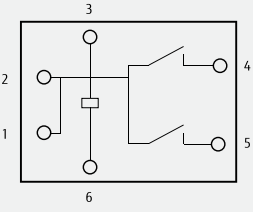
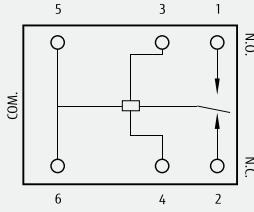
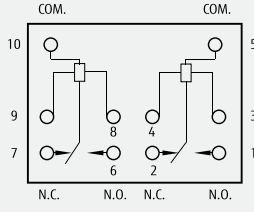
Automotive relays (25A)

Series Name	FTR-P7	FBR51 / 52
		
Description	25A Low Noise Compact Automotive Relay	25A Compact Automotive Relay
Features	<ul style="list-style-type: none"> ■ 0.3 mm contact gap ■ Average acoustic noise level 45db @ 5cm 	<ul style="list-style-type: none"> ■ 0.3 or 0.6 mm (FBR52) ■ 60A inrush
Dimensions (W x L x H mm)	17.0 x 20.8 x 14.0	12.1 x 15.5 x 13.7
Weight (approx.)	7.0 g	6.0 g
Contact form	1 c	1 c
Contact rating	25A, 14VDC locked motor load	25A, 14VDC, locked motor load
Expected life on load example	14VDC, 25A, locked motor load 100x10 ³ ops.	14VDC, 25A, locked motor load 200x10 ³ ops.
Operating temperature	-40 to +85 °C	-40 to +85 °C
Coil voltage (DC)	12 V	6 to 12 V
Nominal coil power	0.55 W	0.6 W / 0.8 W
Dielectric strength (1 min.)	Open contacts: 500VAC Coil and contacts: 500VAC	Open contacts: 500VAC Coil and contacts: 500VAC
Mounting	Through hole	Through hole
Terminal layout (bottom view)		



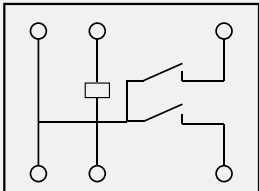
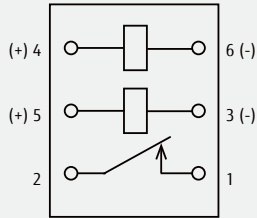
Automotive relays (25A ~ 40A)

Series Name	FBR51 / 52 (-WL / -WF)	FBR51L	FBR53
			
Description	30A Compact Automotive Relay for Special Lamp Loads	25A Dualcoil Latching Compact Automotive Relay	30A Compact Automotive Relay
Features	<ul style="list-style-type: none"> 0.3 mm contact gap 	<ul style="list-style-type: none"> Dual coil latching THR type available 	<ul style="list-style-type: none"> 0.25mm contact gap THR type (-RW) available 60A inrush 30A carry current
Dimensions (W x L x H mm)	12.1 x 15.5 x 13.7	12.1 x 15.5 x 13.7	12.3 x 15.7 x 14.0
Weight (approx.)	6.0 g	6.0 g	6.0 g
Contact form	1 a	1 c	1 form u
Contact rating	80 / 120W, 14VDC lamp load	25A, 14VDC, locked motor load	25A, 14VDC
Expected life on load example	<p>14VDC, 120W, lamp load 100x10³ ops. (-WL)</p> <p>Special type for flasher lamp applications (-WF)</p> <p>14 VDC, 80W, lamp load 2500x10³ ops. (-WF) Inrush 11A, 14VDC 0.35 sec. ON/ 0.35 sec. OFF</p>	<p>14VDC, 25A, locked motor load 200x10³ ops. (-W1 type) 50x10³ ops. (E type)</p>	<p>14VDC, 25A, resistive load 100x10³ ops.</p>
Operating temperature	-40 to +85 °C	-40 to +125 °C	-40 to +125 °C
Coil voltage (DC)	6 to 12 V	10 V	9 to 12 V
Nominal coil power	0.6 W	1.1 W	0.6 W
Dielectric strength (1 min.)	Open contacts: 500VAC Coil and contacts: 500VAC	Open contacts: 500VAC Coil and contacts: 500VAC	Open contacts: 500VAC Coil and contacts: 500VAC
Mounting	Through hole / THR	Through hole / THR	Through hole / THR
Terminal layout (bottom view)			

Automotive relays (25A ~ 40A)

Series Name	FBR53-HW	FBR57	FBR572 / 582
			
Description	40A Compact Relay	12A High Power Relay	12/14A High Power Twin Relay
Features	<ul style="list-style-type: none"> ■ THR type (-RW) available ■ High power type ■ 80A inrush 	<ul style="list-style-type: none"> ■ For 24V battery applications ■ 70A inrush 	<ul style="list-style-type: none"> ■ 0.8/1.4mm contact gap ■ For 24V battery applications ■ 60A inrush
Dimensions (W x L x H mm)	12.3 x 15.7 x 14.0	14.4 x 20.0 x 16.2	20.0 x 26.0 x 16.2 (FBR572) 20.0 x 26.0 x 17.0 (FBR582)
Weight (approx.)	6.0 g	9.4 g	18.0 g
Contact form	1 form U	1 c	1 c x2
Contact rating	40A, 14VDC, resistive load	12A, 28VDC, locked motor load, inrush 15A/break 2.5A 28VDC, free motor load	12A, 28VDC, locked motor load, inrush 15A/break 2.5A, 28VDC, free motor load
Expected life on load example	14VDC, 40A, resistive load 100x10 ³ ops.	28VDC, 12A, locked motor load 100x10 ³ ops. 28VDC, inrush 12A/break 2.5A, free motor load 500x10 ³ ops.	28VDC, 12A, locked motor load 100x10 ³ ops. (FBR572, 582) 28VDC, 2.5A, free motor load 500x10 ³ ops. (FBR572)
Operating temperature	-40 to +125 °C	-40 to +85°C	-40 to +85 °C
Coil voltage (DC)	9 to 12 V	24 V	24 V
Nominal coil power	0.9 W	1.5 W	1.5W / 3.4W
Dielectric strength (1 min.)	Open contacts: 500VAC Coil and contacts: 500VAC	Open contacts: 500VAC Coil and contacts: 500VAC	Open contacts: 500VAC Coil and contacts: 500VAC
Mounting	Through hole / THR	Through hole	Through hole
Terminal layout (bottom view)			

Automotive relays (45A)

Series Name	FBR59-HW	FTR-V1
		
Description	45A/60A High Power Relay	210A High Capacity Latching Relay
Remarks	<ul style="list-style-type: none"> ■ THR type (-RW) ■ High power type ■ 220A max. inrush ■ 60A carry current 	<ul style="list-style-type: none"> ■ 210A (@85°C)/120A(@125°C) continuous current ■ Initial contact resistance max. 0.6mΩ
Dimensions (W x L x H mm)	15.0 x 20.0 x 16.8	52.8 x 84.5 x 24.7
Weight (approx.)	13.0 g	120 g
Contact form	1 form u	1b
Contact rating	45A, 14VDC motor lock, 60A 14VDC resistive	Inrush 230A, 14VDC Break 1A, 14VDC
Expected life on load example	14 VDC, 45A, motor load 100x10 ³ ops. 14VDC, 60A resistive load 100x10 ³ ops.	Inrush 230A, 14VDC Break 1A, 14VDC 120x10 ³ ops.
Operating temperature	-40 to +125 °C	-40 to +125 °C
Coil voltage (DC)	9 to 12 V	12V
Nominal coil power	0.45 W	2.88W
Dielectric strength (1 min.)	Open contacts: 500VAC Coil and contacts: 500VAC	Open contacts: 500VAC Coil and contacts: 500VAC
Mounting	Through hole / THR	
Terminal layout (bottom view)		

Automotive relays (450VDC)

Series Name	FTR-E1
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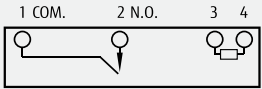
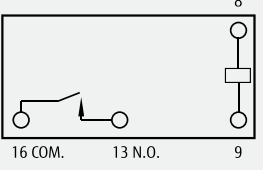
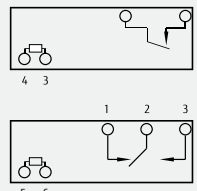


Description	20A/30A, 450VDC High Voltage DC Relay
Remarks	<ul style="list-style-type: none"> ■ No specific polarity for connection of load terminals ■ UL/cUL recognized type available




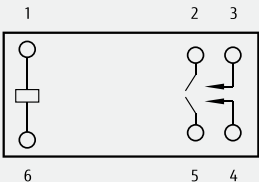
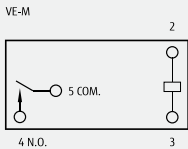
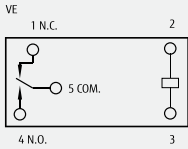
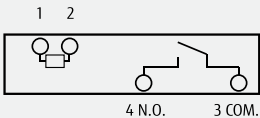
Dimensions (W x L x H mm)	28.3 x 43.6 x 36.8
Weight (approx.)	75.5 g
Contact form	1 a
Contact rating	20A, 450VDC / 30A, 450VDC
Expected life on load example	<p>10A, 450VDC, resistive 75 x 10³ ops. with varistor</p> <p>20A, 450VDC, resistive 10 x 10³ ops. with varistor</p> <p>30A, 450VDC, resistive with varistor, 5x10³ ops. (-HA)</p> <p>20A, 450VDC inrush only (without break), 100x10³ ops.</p>
Operating temperature	-40 to +85 °C
Coil voltage (DC)	12, 24 VDC
Nominal coil power	0.9 W
Dielectric strength (1 min.)	Open contacts: 2,500VAC Coil and contacts: 5,000VAC
Mounting	Through hole

Terminal layout (bottom view)	
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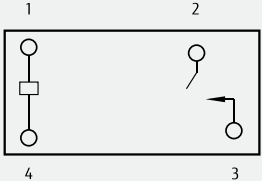
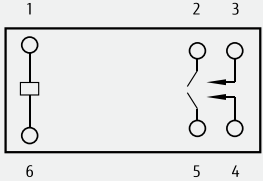
Power relays (3A ~ 5A)

Series Name	NY	JY	FTR-F3
			
Description	5A Slim Type Relay	3/5A Compact Relay	3/5/10A Slim Type Relay
Remarks	<ul style="list-style-type: none"> ■ Socket available (-NYP) ■ Compliant to IEC61010-2-201 and 61131 reinforced insulation ■ Compatible with SN solid state relay 	<ul style="list-style-type: none"> ■ Socket available (-P) ■ Compatible with SJ solid state relay ■ AgCd types not for new designs 	<ul style="list-style-type: none"> ■ Right angle versions available (1 a) ■ TV-3, TV-5 rating types available ■ 1 form c type available ■ Sealed/Flux proof ■ IEC60335-1 types (-GW) ■ 10A types available ■ AgNi contacts
Dimensions (W x L x H mm)	5.0 x 20.1 x 17.5	9.8 x 20.0 x 12.8	7.0 x 20.3 x 15.0 (1c: 7.0 x 23.4 x 15.0)
Weight (approx.)	3.5 g	5.0 g	4.0 g
Contact form	1 a	1 a	1 a, 1 c (5A type)
Contact rating (Resistive load)	5A, 250VAC/30VDC	3A, 250VAC/30VDC (3A type) 5A, 250VAC/30VDC (5A type)	3A, 125VAC/30VDC (3A type) 5A, 250VAC/30VDC (5A type) 10A, 250VAC/30VDC (10A type)
Minimum switching load (ref.)	5VDC, 1mA	100m VDC 0.1WmA (W) 5VDC 10mA (G, HG) 5VDC 100mA (R, HR)	5VDC 10mA (3/5A type) 5VDC 100mA (10A type)
Mechanical life	20 x 10 ⁶ ops.	20 x 10 ⁶ ops.	5 x 10 ⁶ ops. / 2x10 ⁶ ops (1c)
Electrical life (Rated load)	100 x 10 ³ ops. (at 3A, 250VAC, 30VDC) 50x10 ³ ops. (at 5A, 250VAC,30VDC)	100 x 10 ³ ops.	10x10 ³ ops (10A plastic sealed type) 50 x 10 ³ ops. (10A flux free type, 1c type, TV-rated type) 100 x 10 ³ ops. (5A type) 200 x 10 ³ ops. (3A type)
Operating temperature	-40 to +90 °C	-40 to +90 °C	-40 to +70 °C , -40 to 85°C (TV-3/TV-5), -40 to +40°C (10A type)
Coil voltage (DC)	4.5 to 24 V	4.5 to 48 V	5 to 24 V
Nominal coil power	0.12 W	0.2 to 0.36 W	0.2W / 0.28 W / 0.36 W
Surge strength	5,080 V	4,000 V	10,000 V
Dielectric strength (1 min.)	Open contacts: 750VAC Coil and contacts: 3,000VAC	Open contacts: 750VAC Coil and contacts: 2,000VAC	Open contacts: 750VAC Coil and contacts: 4,000VAC
Safety standards	UL, CSA	UL, CSA	UL, CSA, VDE, CQC
Mounting / Enclosure	Through hole / RTIII	Through hole / RTIII	Through hole / RTII / RTIII
Terminal layout (bottom view)			




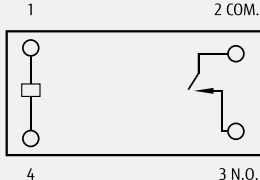
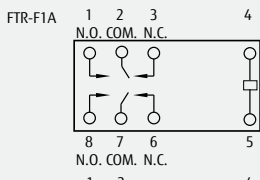
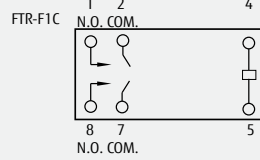
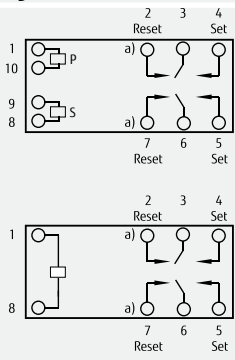
Power relays (3A ~ 5A)

Series Name	FTR-F4	VE	FTR-MY
			
Description	5A TV-3 Compact Relay	5A Medium Load Relay	5A Slim Type Relay
Remarks	<ul style="list-style-type: none"> ■ Flux proof types ■ TV-3 rated 	<ul style="list-style-type: none"> ■ High sensitive types ■ Cd types (not for new designs) ■ Creepage >3.2mm 	<ul style="list-style-type: none"> ■ Compliant to IEC61010-2-201, 61131-2 reinforced insulation ■ Conforms to ANSI/ISA12.12.01 ■ Creepage, clearance >5.6mm
Dimensions (W x L x H mm)	12.0 x 24.0 x 25.0	10.5 x 20.5 x 20.5	5.0 x 20.0 x 12.0
Weight (approx.)	12.0 g	8.0 g	2.5 g
Contact form	2 a	1 a, 1 c	1 a
Contact rating (Resistive load)	5A, 250VAC/30VDC	5A, 250VAC (HME, HM) 3A (NC)/5A (NO), 250VAC (H, HE)	5A, 250VAC/30VDC
Minimum switching load (ref.)	5VDC, 100mA	5VDC, 10mA (gold plated contacts) 5VDC, 100mA	5VDC 1mA
Mechanical life	2 x 10 ⁶ ops.	10 x 10 ⁶ ops.	20 x 10 ⁶ ops.
Electrical life (Rated load)	100 x 10 ³ ops. 25 x 10 ³ (lamp load TV-3)	100 x 10 ³ ops. (VE) 50 x 10 ³ ops. (VE-S)	100 x 10 ³ ops. (at 3A 250VAC/30VDC), 5 x 10 ³ ops (at 5A, 250VAC/30VDC)
Operating temperature	-40 to +70 °C	-40 to +85 °C	-40 to +90 °C
Coil voltage (DC)	5 to 48 V	5 to 48 V	4.5 to 24 V
Nominal coil power	0.53 W	0.25 to 0.36 W	0.11 W
Surge strength	10,000 V	4,000 V / 6,000 V	5,080 V
Dielectric strength (1 min.)	Open contacts: 1,000VAC Coil and contacts: 4,000VAC	Open contacts: 750VAC (1 c), 1,000 VAC (1 a) Coil and contacts: 2,000VAC	Open contacts: 750VAC Coil and contacts: 3,000VAC
Safety standards	UL, CSA, VDE, CQC	UL, CSA, VDE, CQC	UL, CSA, VDE, CQC
Mounting / Enclosure	Through hole / RTII	Through hole / RTIII	Through hole / RTIII
Terminal layout (bottom view)		 	




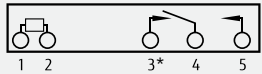
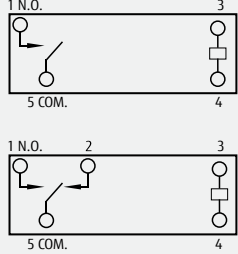
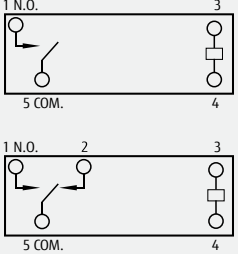
Power relays (3A ~ 5A)

Series Name	FTR-F2	FTR-F4G
		
Description	5A High profile Relay	5A High Profile Wide Contact Gap Relay
Remarks	<ul style="list-style-type: none"> ■ TV-5 rated ■ TV-8 Version (F2P) ■ High sensitive coil types 	<ul style="list-style-type: none"> ■ 1.5mm contact gap ■ TV-3 rated ■ Flux proof and sealed types
Dimensions (W x L x H mm)	11.0 x 24.0 x 25.0	12.7 x 28.7 x 25.2
Weight (approx.)	13.0 g	18.0 g
Contact form	1 a	2 a
Contact rating (Resistive load)	5A, 250VAC/30VDC	5A, 250VAC
Minimum switching load (ref.)	5VDC 100mA	5VDC, 100mA
Mechanical life	2 x 10 ⁶ ops.	500 x 10 ³ ops.
Electrical life (Rated load)	100 x 10 ³ ops.	100 x 10 ³ ops. flux proof version 20 x 10 ³ Sealed version
Operating temperature	-40 to +70 °C	-40 to +70 °C
Coil voltage (DC)	5 to 48 V, (F2P: 5 to 24V)	3 to 60 V
Nominal coil power	0.25 to 0.53 W	0.8 W
Surge strength	10,000 V, (F2P: 12,000V)	10,000 V
Dielectric strength (1 min.)	Open contacts: 1,000VAC Coil and contacts: 4,000VAC	Open contacts: 1,500VAC Coil and contacts: 5,000VAC
Safety standards	UL, CSA, VDE, CQC, (F2P: UL, CSA)	cULus, TUV
Mounting / Enclosure	Through hole / RTII	Through hole / RTII / RTIII
Terminal layout (bottom view)		




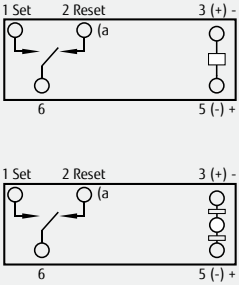
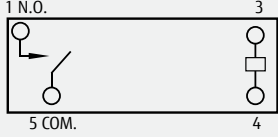
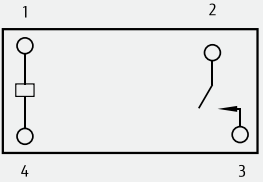
Power relays (5A ~ 10A)

Series Name	JV	FTR-F1	FTR-F1L
			
Description	5A/10A Medium Load Relay	5A / 8A Low Profile Relay	8A Low Profile Latching Relay
Remarks	<ul style="list-style-type: none"> High sensitive type available 10A type JV-KS (TV 4) IEC60335-1 types (-GW) available 	<ul style="list-style-type: none"> Pin compatible with VB series TV-3 rating available (2 a) Clear cover available (-RG) Sensitive coil types 8A types FTR-F1R 	<ul style="list-style-type: none"> Latching relay 1 and 2 coil types
Dimensions (W x L x H mm)	10.0 x 17.5 x 12.5	12.8 x 29.0 x 16.5	12.8 x 29.0 x 16.5
Weight (approx.)	4.3 g	12.0 g	13.0 g
Contact form	1 a	2 a, 2 c	2 a, 2 c
Contact rating (Resistive load)	5A, 250VAC/30VDC (5A type) 10A, 250VAC/24VDC (10A type)	5A, 250VAC/24VDC (5A type) 8A, 250VAC/24VDC (8A type)	8A, 250VAC/24VDC
Minimum switching load (ref.)	5VDC, 10mA (5A type) 5VDC, 100mA (10A type)	5VDC 10mA	5VDC 10mA
Mechanical life	5 x 10 ⁶ ops.	20 x 10 ⁶ ops.	3 x 10 ⁶ ops.
Electrical life (Rated load)	100 x 10 ³ ops. (5A type), 50 x 10 ³ ops (10A type)	100 x 10 ³ ops. 25 x 10 ³ (TV3) 50 x 10 ³ (F1R)	50 x 10 ³ ops.
Operating temperature	-40 to 70 °C (5A type) / 85 °C (10A type)	-40 to +75 °C (Transparent type: -40 to 70 °C)	-40 to +85 °C
Coil voltage (DC)	3 to 24 V (48V for 5A standard type)	1.5 to 110 V (High sensitive: 1.5 to 48V)	5 to 24 V
Nominal coil power	0.2 to 0.3 W	0.4 to 0.55 W	0.4 to 0.6 W
Surge strength	10.000 V	10.000 V	10.000 V
Dielectric strength (1 min.)	Open contacts: 750VA Coil and contacts: 5,000VAC	Open contacts: 1,000VAC Coil and contacts: 5,000VAC	Open contacts: 1,000VAC Coil and contacts: 5,000VAC
Safety standards	UL, CSA, VDE, CQC	UL, CSA, VDE, CQC	UL, CSA, VDE, CQC
Mounting / Enclosure	Through hole / RTIII	Through hole / RTIII	Through hole / RTIII
Terminal layout (bottom view)		 	 a) omitted on 2 a types

Power relays (5A ~ 10A)

Series Name	FTR-LY	JS	JS-RW
			 New Design
Description	6A Slim Type Relay	8A Low Profile Relay	8A Low Profile Relay Reflow Capable
Remarks	<ul style="list-style-type: none"> ■ Ultra slim ■ Socket type available ■ Right angle type available ■ Creepage/clearance >8mm 	<ul style="list-style-type: none"> ■ 3.2 and 5 mm pitch types ■ IEC60335-1 types (-GW) ■ 3μAu versions ■ Creepage/clearance >8mm 	<ul style="list-style-type: none"> ■ Reflow solderable relay ■ 3.2 and 5 mm pitch types ■ Flux proof ■ Contact Fujitsu for details ■ 1μAu versions ■ Creepage/clearance >8mm
Dimensions (W x L x H mm)	5.0 x 28.0 x 15.0	10.0 x 29.0 x 12.5	10.0 x 29.0 x 12.5
Weight (approx.)	5.0 g	8.0 g	8.0 g
Contact form	1 a, 1 c	1 a, 1 c	1 a, 1 c
Contact rating (Resistive load)	6A, 250VAC/24VDC	8A, 250VAC/24VDC	8A, 250VAC/24VDC
Minimum switching load (ref.)	5VDC, 10mA (-V type) 5VDC 100mA (-Y, -E type)	5VDC 100mA, 5VDC 10mA (3μAu)	5VDC 100mA, 5VDC 10mA (1μAu)
Mechanical life	10 x 10 ⁶ ops.	20 x 10 ⁶ ops.	20 x 10 ⁶ ops.
Electrical life (Rated load)	30 x 10 ³ ops. NC 50 x 10 ³ ops. NO	20 x 10 ³ ops. to 50 x 10 ³ ops. (Depends on contact material)	20 x 10 ³ ops. to 50 x 10 ³ ops. (Depends on contact material)
Operating temperature	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C
Coil voltage (DC)	5 to 60 V	5 to 60 V	5 to 60 V
Nominal coil power	0.17 W / 0.217 mW	0.22 to 0.29 W	0.22 to 0.29 W
Surge strength	6,000 V	10,000 V	10,000 V
Dielectric strength (1 min.)	Open contacts: 1,000VAC Coil and contacts: 4,000VAC	Open contacts: 1,000VAC Coil and contacts: 5,000VAC	Open contacts: 1,000VAC Coil and contacts: 5,000VAC
Safety standards	UL, CSA, VDE	UL, CSA, VDE, CQC	Pending
Mounting / Enclosure	Through hole / RTIII	Through hole / RTIII	Through hole / Reflow (THR) / RTII
Terminal layout (bottom view)	 <p>*omitted on 1 form A type</p>		

Power relays (5A ~ 10A)

Series Name	JSL	JS-KS	FTR-H2
			
Description	8A Low Profile Latching Relay	8A Low Profile High Inrush Relay	10A High Profile Relay
Remarks	<ul style="list-style-type: none"> ■ Latching type ■ 1 and 2 coil types available ■ 3.2mm pitch ■ Creepage/clearance >8mm 	<ul style="list-style-type: none"> ■ 1000W lamp load ■ 65A inrush (TV4) ■ 5mm pitch ■ Creepage/clearance >8mm 	<ul style="list-style-type: none"> ■ TV-5 rated ■ High sensitive types ■ Creepage/clearance >6mm
Dimensions (W x L x H mm)	10.0 x 29.0 x 12.5	10.0 x 29.0 x 12.5	11.0 x 24.0 x 25.0
Weight (approx.)	8.0 g	8.0 g	13.0 g
Contact form	1 a, 1 c	1 a	1 a
Contact rating (Resistive load)	8A, 250VAC/24VDC	8A, 250VAC/24VDC	10A, 250VAC/30VDC
Minimum switching load (ref.)	5VDC 100mA	5VDC 100mA	5VDC 100mA
Mechanical life	5 x 10 ⁶ ops.	20 x 10 ⁶ ops.	2 x 10 ⁶ ops.
Electrical life (Rated load)	50 x 10 ³ ops.	100k @ rated load 25k @ lamp load (TV4)	100 x 10 ³ ops. @ rated load 25 x 10 ³ ops. (@ lamp load TV-5)
Operating temperature	-40 to +85 °C	-40 to +85 °C	-40 to +70 °C
Coil voltage (DC)	3 to 24 V	5 to 60 VDC	5 to 48 V (High sensitive: 5 to 24V)
Nominal coil power	0.22 to 0.25 (1coil), 0.48 (2 coils)	0.22 to 290mw	0.25 to 0.53 W
Surge strength	10.000 V	10.000 V	10.000 V
Dielectric strength (1 min.)	Open contacts: 1,000VAC Coil and contacts: 5,000VAC	Open contacts: 1,000VAC Coil and contacts: 5,000VAC	Open contacts: 1,000VAC Coil and contacts: 4,000VAC
Safety standards	UL, CSA, VDE	UL, CSA	UL, CSA, VDE, CQC
Mounting / Enclosure	Through hole / RT III	Through hole / RT III	Through hole / RT II / RT III
Terminal layout (bottom view)	 <p>(a omitted on 1 a types)</p>		

Power relays (5A ~ 10A)

Series Name

FTR-J2



Description

10A, 450VDC Small High Voltage DC Relay

Remarks

- Special arc extinguishing provision
- 150A inrush per contact

Dimensions (W x L x H mm)

23.5 x 24.0 x 27.0

Weight (approx.)

26.0 g

Contact form

1a x 2

Contact rating (Resistive load)

10A, 200VDC x 2
or 10A, 450VDC x 1
600VDC max. switching voltage

Minimum switching load (ref.)

5VDC, 100mA per contact

Mechanical life

2 x 10⁶ ops.

Electrical life (Rated load)

10 x 10³ ops.

Operating temperature

-40 to +85 °C

Coil voltage (DC)

5 to 110 V

Nominal coil power

1 coil: 0.53W, 2 coils: 1.06W

Surge strength

10.000 V (1.2 x 50µs)

Dielectric strength (1 min.)

Open contacts: 1,000VAC
Coil and contacts: 4,000VAC

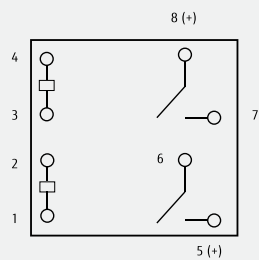
Safety standards

UL, VDE




Mounting / Enclosure

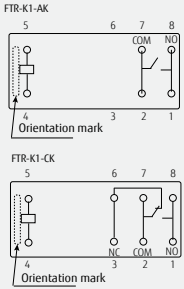
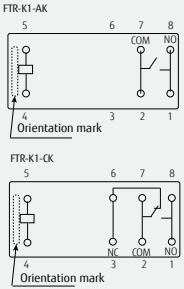
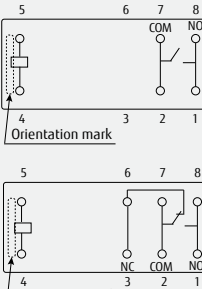
Through hole / RT II

Terminal layout
(bottom view)




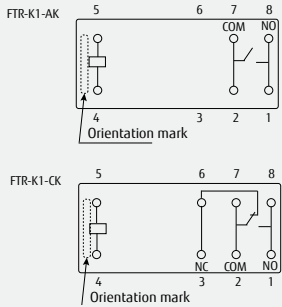
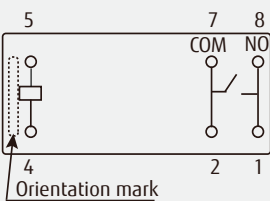
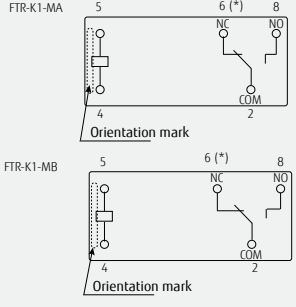


Power relays (>10A ~ 20A)




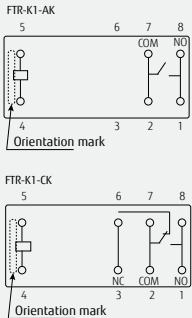
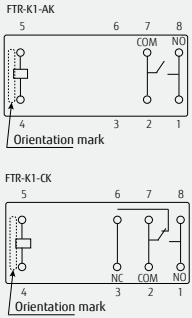
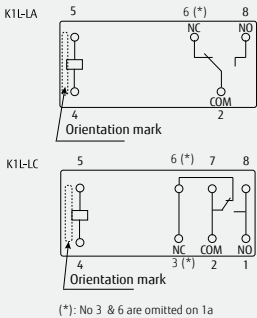
Series Name	FTR-K1		FTR-K1-(RG)		FTR-K1-E	
						
Description	16A Inrush 80A Type		10A Transparent Cover, Inrush 80A Type		16A AgNi Contact	
Type	FTR-K1AK()T	FTR-K1CK()W	FTR-K1AK()T-RG	FTR-K1CK()W-RG	FTR-K1AK()E	FTR-K1CK()E
Remarks	<ul style="list-style-type: none"> ■ Au plated types (-BG) ■ 5mm pitch ■ Creepage/clearance >10mm ■ UI-TV-5 (N.O.) 		<ul style="list-style-type: none"> ■ Cover material PC ■ Max operating temp. +70°C ■ 10A/12A/16A standard types available ■ 5.0mm pitch 		<ul style="list-style-type: none"> ■ Contact material AgNi ■ Clear cover types (-RG) available ■ 5mm pitch ■ Creepage/clearance >10mm 	

Dimensions (W x L x H mm)	12.7 x 29.0 x 15.7		12.7 x 29.0 x 15.7		12.7 x 29.0 x 15.7	
Weight (approx.)	13.0 g		13.0 g		13.0 g	
Contact form	1 a	1 c	1 a	1 c	1 a	1 c
Contact rating (Resistive load)	16A, 250VAC/24VDC		16A, 250VAC/24VDC		16A, 250VAC/24VDC	
Minimum switching load (ref.)	5VDC 100mA		5VDC 100mA		5VDC 100mA	
Mechanical life	20 x 10 ⁶ ops.		20 x 10 ⁶ ops.		20 x 10 ⁶ ops.	
Electrical life (Rated load)	100 x 10 ³ ops. (AC) 100 x 10 ³ ops. (DC) 25 x 10 ³ ops. (TV-5)	50 x 10 ³ ops. (AC) 30 x 10 ³ ops. (DC) 25 x 10 ³ ops. (TV-5) (N.O.)	100 x 10 ³ ops. (AC) 100 x 10 ³ ops. (DC) 25 x 10 ³ ops. (TV-5)	50 x 10 ³ ops. (AC) 30 x 10 ³ ops. (DC) 25 x 10 ³ ops. (TV-5) (N.O.)	100 x 10 ³ ops. (AC) 100 x 10 ³ ops. (DC)	50 x 10 ³ ops. (AC) 30 x 10 ³ ops. (DC)
Operating temperature	-40 to +85 °C		-40 to +70 °C		-40 to +85 °C	
Coil voltage (DC)	5 to 110 VDC		5 to 110 V		5 to 110 V	
Nominal coil power	0.4 to 0.43W		0.4 to 0.43 W		0.4 to 0.43 W	
Surge strength	10.000 V		10.000 V		10.000 V	
Dielectric strength (1 min.)	Open contacts: 1,000VAC Coil and contacts: 5,000VAC		Open contacts: 1,000VAC Coil and contacts: 5,000VAC		Open contacts: 1,000VAC Coil and contacts: 5,000VAC	
Safety standards	UL, CSA, VDE, CQC		VDE		UL, CSA, VDE	
Mounting / Enclosure	Through hole, RTII		Through hole, RTII		Through hole, RTII	
Terminal layout (bottom view)						

Power relays (>10A ~ 20A)




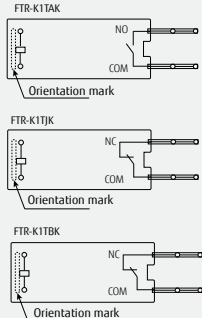
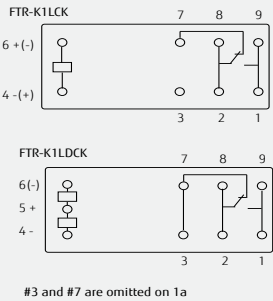
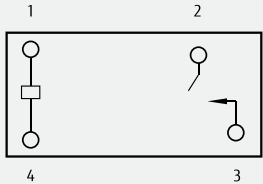
Series Name	FTR-K1-KS		FTR-K1-HC	FTR-K1-MA / MB	
					
Description	16A Inrush 120A Type		High Capacity 20A Type	12A Type	
Type	FTR-K1AK() T-KS	FTR-K1CK()T-KS	FTR-K1AK()T-HC	FTR-K1AK() W-(MA;MB)	FTR-K1CK() W-(MA;MB)
Remarks	<ul style="list-style-type: none"> ■ 5mm pitch ■ Creepage/clearance >10mm ■ UL TV-8 (N.O.) 		<ul style="list-style-type: none"> ■ 5mm pitch ■ Creepage/clearance >10mm 	<ul style="list-style-type: none"> ■ Au plated types (-BG) ■ Clear cover types (-RG) ■ 3.5mm pitch. MA type ■ 5mm pitch MB type ■ Creepage/clearance >10mm 	
Dimensions (W x L x H mm)	12.7 x 29.0 x 15.7		12.7 x 29.0 x 15.7	12.7 x 29.0 x 15.7	
Weight (approx.)	13.0 g		13.0 g	13.0 g	
Contact form	1 a	1 c	1 a	1 a	1 c
Contact rating (Resistive load)	16A, 250VAC		20A, 250VAC	12A, 250VAC/24VDC	
Minimum switching load (ref.)	5VDC 100mA		5VDC 100mA	5VDC 100mA	
Mechanical life	20 x 10 ⁶ ops.		20 x 10 ⁶ ops.	20 x 10 ⁶ ops.	
Electrical life (Rated load)	100 x 10 ³ ops. (AC) 25 x 10 ³ ops. (TV-8)	30 x 10 ³ ops. (AC) 25 x 10 ³ ops. (TV-8) (N.O.)	100 x 10 ³ ops. (AC)	100 x 10 ³ ops. (AC) 100 x 10 ³ ops. (DC)	
Operating temperature	-40 to +85 °C		-40 to +85 °C	-40 to +85 °C	
Coil voltage (DC)	18 V		18 V	18 V	
Nominal coil power	0.4 to 0.43 W		0.4 W	0.4 W / 0.43 W	
Surge strength	10.000 V		10.000 V	10.000 V	
Dielectric strength (1 min.)	Open contacts: 1,000VAC Coil and contacts: 5,000VAC		Open contacts: 1,000VAC Coil and contacts: 5,000VAC	Open contacts: 1,000VAC Coil and contacts: 5,000VAC	
Safety standards	UL, CSA, VDE		UL	UL, CSA, VDE	
Mounting / Enclosure	Through hole, RTII		Through hole, RTII	Through hole, RTII	
Terminal layout (bottom view)					
				(*) : No 6 is omitted on 1a	

Power relays (>10A ~ 20A)

Series Name	FTR-K1-HT		FTR-K1-KW		FTR-K1-LA / LB	
						
Description	16A High Temperature 105°C Type		16A Plastic Sealed 105°C Type		10A High Sensitive Type	
Type	FTR-K1AK()T-HT	FTR-K1CK()W-HT	FTR-K1AK() W-KW	FTR-K1CK()W-KW	FTR-K1AL() W-(LA, LB)	FTR-K1CL() W-(LA, LB)
Remarks	<ul style="list-style-type: none"> ■ 5mm pitch ■ Creepage/clearance >10mm\ ■ Flux free ■ UL TV-5 (1a) 		<ul style="list-style-type: none"> ■ 5mm pitch ■ Creepage/clearance >10mm ■ Plastic seal 		<ul style="list-style-type: none"> ■ Clear cover types (-RG) ■ Gold plated contact types (-BG) ■ 3.5mm pitch LA type ■ 5mm pitch LB type ■ Creepage/clearance >10mm 	
Dimensions (W x L x H mm)	12.7 x 29.0 x 15.7		12.7 x 29.0 x 15.7		12.7 x 29.0 x 15.7	
Weight (approx.)	13.0 g		13.0 g		13.0 g	
Contact form	1 a	1 c	1 a	1 c	1 a	1 c
Contact rating (Resistive load)	16A, 250VAC/24VDC		16A, 250VAC		10A, 250VAC	
Minimum switching load (ref.)	5VDC 100mA		5VDC 100mA		5VDC 100mA	
Mechanical life	20 x 10 ⁶ ops.		20 x 10 ⁶ ops.		20 x 10 ⁶ ops.	
Electrical life (Rated load)	100x10 ³ ops. (AC) 100x10 ³ ops.(DC) 25 x 10 ³ ops. (1a / TV-5)	50 x 10 ³ ops. (AC) 30 x 10 ³ ops. (DC)	20 x 10 ³ ops. (AC)	10 x 10 ³ ops. (AC)	100 x 10 ³ ops. (LA), 150 x 10 ³ ops. (LB)	100 x 10 ³ ops. (LA, LB)
Operating temperature	-40 to +105 °C		-40 to +105 °C		-40 to +85 °C (LA) / -40 to +105 °C (LB)	
Coil voltage (DC)	5 to 110 VDC		5 to 110 V		5 to 48 V	
Nominal coil power	0.4 to 0.43W		0.4 to 0.43W		0.25 W	
Surge strength	10.000 V		10.000 V		10.000 V	
Dielectric strength (1 min.)	Open contacts: 1,000VAC Coil and contacts: 5,000VAC		Open contacts: 1,000VAC Coil and contacts: 5,000VAC		Open contacts: 1,000VAC Coil and contacts: 5,000VAC	
Safety standards	UL, VDE		UL, VDE		UL, CSA, VDE	
Mounting / Enclosure	Through hole / RTII		Through hole / RTIII		Through hole / RTII	
Terminal layout (bottom view)						

(*) No 3 & 6 are omitted on 1a

Power relays (>10A ~ 20A)

Series Name	FTR-K1T		FTR-K1L		FTR-K2
					
Description	17A Tab Terminal Type		16A Latching Type Inrush 80A		16A High Profile Relay
Type	FTR-K1TAK, FTR-K1TJK	FTR-K1TBK	FTR-K1L(D) AK()T	FTR-K1L(D)CK()W AK()T	FTR-K2AK-T
Remarks	<ul style="list-style-type: none"> ■ Au plated contacts (-BG) ■ Horizontal / vertical tabs ■ TV-5 rated (1a) ■ Creepage/clearance >10mm 		<ul style="list-style-type: none"> ■ 1 and 2 coil types ■ TV-5 rated (N.O.) ■ Creepage/clearance >10mm 		<ul style="list-style-type: none"> ■ TV-5 rated ■ 1mm contact gap types available ■ 3.5mm pitch
Dimensions (W x L x H mm) Note: * except tab terminals	12.7 x 29.0 x 15.7*	12.7 x 29.0 x 15.7*	12.7 x 29.0 x 15.7		11.0 x 24.0 x 25.0
Weight (approx.)	14.8 g		13.0 g		13.0 g
Contact form	1 a	1 b	1 a	1 c	1 a
Contact rating (Resistive load)	17A, 250VAC		16A, 250VAC		16A, 250VAC / 30VDC
Minimum switching load (ref.)	5VDC 100mA		5VDC 100mA		5VDC 100mA
Mechanical life	20 x 10 ⁶ ops.		3 x 10 ⁶ ops.		2 x 10 ⁶ ops.
Electrical life (Rated load)	100 x 10 ³ ops. (AC) 25 x 10 ³ ops. (TV-5)	50 x 10 ³ ops. (AC)	100 x 10 ³ ops. (AC) 25 x 10 ³ ops. (TV-5)	50 x 10 ³ ops. (AC) 25 x 10 ³ ops. (TV-5) (N.O.)	100 x 10 ³ ops. 25 x 10 ³ ops. (lamp load TV-5)
Operating temperature	-40 to +105 °C		-40 to +85 °C		-40 to +70 °C
Coil voltage (DC)	5 to 110 VDC		5, 12, 24 V		3 to 48 V
Nominal coil power	0.4 to 0.43W		1 Coil 0.4 W, 2 Coil 0.6 W		0.53 W
Surge strength	10,000 V		10,000 V		10,000 V
Dielectric strength (1 min.)	Open contacts: 1,000VAC Coil and contacts: 5,000VAC		Open contacts: 1,000VAC Coil and contacts: 5,000VAC		Open contacts: 1,000VAC Coil and contacts: 4,000VAC
Safety standards	UL, CSA, VDE		VDE, cULus		UL, CSA, VDE, CQC
Mounting / Enclosure	Through hole / RTII		Through hole / RTII		Through hole / RTII
Terminal layout (bottom view)			 <p>#3 and #7 are omitted on 1a</p>		

Power relays (>10A ~ 20A)

Series Name	FTR-K2G
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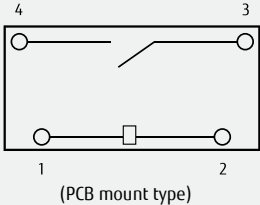
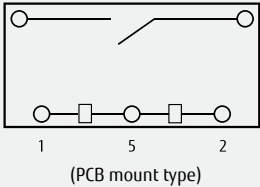
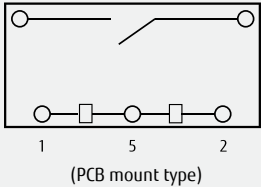


Description	20A 3mm Wide Contact Gap Relay
Type	FTR-K2G
Remarks	<ul style="list-style-type: none"> ■ TV-8 rated ■ 3mm contact gap ■ Reinforced insulation ■ Peak inrush 120A

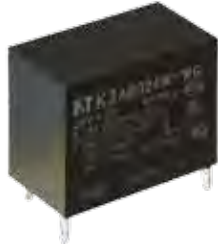

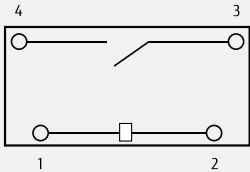
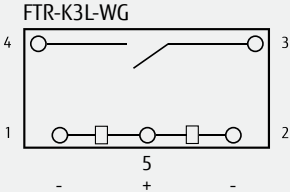
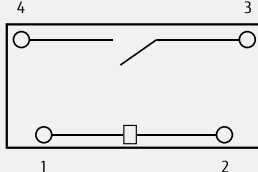
Dimensions (W x L x H mm)	16.0 x 35.0 x 28.0
Weight (approx.)	34.0 g
Contact form	1 a
Contact rating (Resistive load)	20A, 250VAC (120A, 250VAC inrush)
Minimum switching load (ref.)	5VDC 100mA
Mechanical life	1 x 10 ⁶ ops.
Electrical life (Rated load)	100 x 10 ³ ops. 25 x 10 ³ ops. (lamp load TV-8)
Operating temperature	-40 to +70 °C
Coil voltage (DC)	5 to 110 V
Nominal coil power	0.93 to 1.05 W
Surge strength	10.000 V
Dielectric strength (1 min.)	Open contacts: 2,000VAC Coil and contacts: 5,000VAC
Safety standards	UL, VDE
Mounting / Enclosure	Through hole

Terminal layout (bottom view)	<p>Orientation mark</p>
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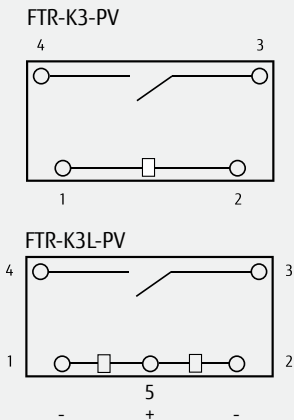
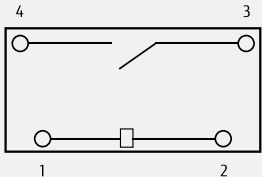
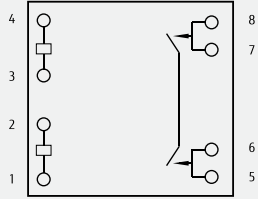
Power relays (20A ~ 25A)

Series Name	FTR-K3	FTR-K3L	FTR-K3LV
			
Description	20 - 25A Heavy Load Relay	25A Heavy Load Latching Relay	32A Heavy Load Latching Relay
Type	FTR-K3	FTR-K3L	FTR-K3LV
Remarks	<ul style="list-style-type: none"> ■ Tab terminal types (J) ■ Flat types (-F) ■ High insulation type (-LS) ■ High current type (-HC) ■ PCB mount types (A) 	<ul style="list-style-type: none"> ■ 2 coil latching type ■ Tab terminal types (J) and PCB mount types (A) 	<ul style="list-style-type: none"> ■ 2 coil latching type ■ 32A screw terminal type
Dimensions (W x L x H mm)	15.7 x 30.1 x 23.3 (Flat: 23.3 x 30.9 x 18.2)	15.7 x 30.1 x 23.3	15.7 x 30.1 x 23.3
Weight (approx.)	25.0 g	25.0 g	27.0g
Contact form	1 a	1 a	1 a
Contact rating (Resistive load)	20A, 250VAC 25A, 250VAC(-HC, Flat)	25A, 250VAC	32A 250VAC
Minimum switching load (ref.)	5VDC 100mA	5VDC 100mA	5VDC 100mA
Mechanical life	2 x 10 ⁶ ops.	1 x 10 ⁶ ops.	1 x 10 ⁶ ops.
Electrical life (Rated load)	100 x 10 ³ ops.	100 x 10 ³ ops.	30x10 ³ ops.
Operating temperature	-40 to +60 °C	-40 to +85 °C	-40 to +85 °C
Coil voltage (DC)	5 to 48 V	5 to 24 V	5 to 48V
Nominal coil power	0.78 W	0.9mW	1.2W
Surge strength	8,500 V	8,500 V	6,000V
Dielectric strength (1 min.)	Open contacts: 1,000VAC Coil and contacts: 5,000VAC	Open contacts: 1,000VAC Coil and contacts: 5,000VAC	Open contacts: 2,500VAC Coil and contacts: 5,000VAC
Safety standards	UL, CSA, VDE, CQC, TÜV, (Flat: UL, CSA, VDE, CQC)	cULus, VDE	No safety standard
Mounting / Enclosure	Through hole / RTII	Through hole / RTII	Through hole / RTII
Terminal layout (bottom view)	 <p>(PCB mount type)</p>	 <p>(PCB mount type)</p>	 <p>(PCB mount type)</p>

Power relays (20A ~ 25A)

Series Name	FTR-K3-WG	FTR-K3-WS
		
Description	25A 1.5mm Contact Gap Relay	25A 1.8mm Contact Gap Relay
Type	FTR-K3-WG	FTR-K3-WS
Remarks	<ul style="list-style-type: none"> ■ 1.5mm contact gap ■ 2 coil latching type available (FTR-K3L-WG) 	<ul style="list-style-type: none"> ■ 1.8mm contact gap
Dimensions (W x L x H mm)	15.7 x 30.1 x 23.3	15.7 x 30.1 x 23.3
Weight (approx.)	25.0 g	25.0 g
Contact form	1 a	1 a
Contact rating (Resistive load)	25A, 250VAC	25A, 250VAC
Minimum switching load (ref.)	5VDC 100mA	5VDC 100mA
Mechanical life	2 x 10 ⁶ ops.	100 x 10 ³ ops.
Electrical life (Rated load)	100 x 10 ³ ops.	30 x 10 ³ ops.
Operating temperature	-40 to +60 °C, (latch: -40 to 85 °C)	-40 to +60 °C
Coil voltage (DC)	5 to 48 V	5 to 48 V
Nominal coil power	0.78 W	1.2 W
Surge strength	8,500 V	8,500 V
Dielectric strength (1 min.)	Open contacts: 2,500VAC Coil and contacts: 5,000VAC	Open contacts: 2,500VAC Coil and contacts: 5,000VAC
Safety standards	UL, VDE, CQC	UL, VDE
Mounting / Enclosure	Through hole / RTII	Through hole / RTII
Terminal layout (bottom view)	<p>FTR-K3-WG</p>  <p>FTR-K3L-WG</p> 	

Power relays (30A ~ 120A)

Series Name	FTR-K3-PV	FTR-K3-PS	FTR-K2W
			
Description	32A 1.5mm Contact Gap Relay	32A 1.8mm Contact Gap Relay	30A 60VDC /25A 72VDC 6mm Contact Gap Relay
Type	FTR-K3-PV	FTR-K3-PS	FTR-K2W
Remarks	<ul style="list-style-type: none"> ■ High capacity 32A ■ 1.5mm contact gap ■ 2 coil latching type available (FTR-K3L-PV) 	<ul style="list-style-type: none"> ■ High capacity 32A ■ 1.8mm contact gap 	<ul style="list-style-type: none"> ■ DC high capacity
Dimensions (W x L x H mm)	15.7 x 30.1 x 23.3	15.7 x 30.1 x 23.3	34.9 x 36.5 x 30.2
Weight (approx.)	25.0 g	25.0 g	74.0 g
Contact form	1 a	1 a	1 a
Contact rating (Resistive load)	32A, 250VAC	32A, 250VAC	30A 60VDC/25A 72VDC
Minimum switching load (ref.)	5VDC 100mA	5VDC 100mA	5VDC 100mA
Mechanical life	1 x 10 ⁶ ops.	100 x 10 ³ ops.	1 x 10 ⁶ ops.
Electrical life (Rated load)	30 x 10 ³ ops.	30 x 10 ³ ops.	10 x 10 ³ ops.
Operating temperature	-40 to +60 °C, (latch: -40 to 85°C)	-40 to +60 °C	-40 to +70 °C
Coil voltage (DC)	5 to 48 V	5 to 48 V	5 to 48 V
Nominal coil power	1.2 W	1.4 W	2 W
Surge strength	6,000 V	6,000 V	10,000 V (1.2X50μs)
Dielectric strength (1 min.)	Open contacts: 2,500VAC Coil and contacts: 4,000VAC	Open contacts: 2,500VAC Coil and contacts: 4,000VAC	Open contacts: 2,000VAC Coil and contacts: 5,000VAC
Safety standards	UL, VDE	UL, VDE	cULus, TÜV
Mounting / Enclosure	Through hole / RTII	Through hole / RTII	Through hole / RTII
Terminal layout (bottom view)	 <p>FTR-K3-PV</p> <p>FTR-K3L-PV</p>		

Power relays (30A ~ 120A)

Series Name	FTR-K4
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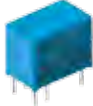


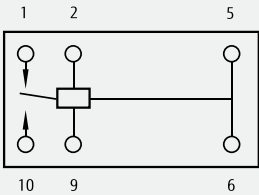
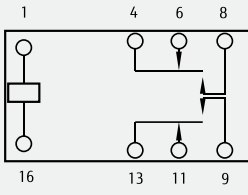
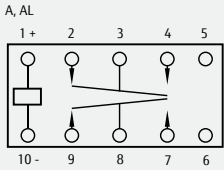
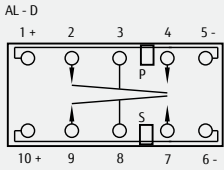


Description	120A High Power Latching Relay
Remarks	<ul style="list-style-type: none"> ■ 2 coil latching type available ■ Meets IEC62055-31 UC 3 category ■ Contact resistance max. 0.5Ω (initial)




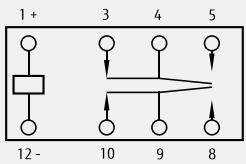
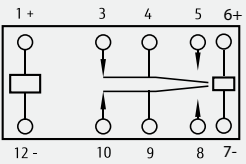
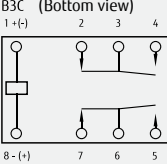
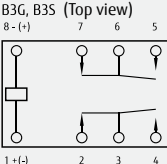
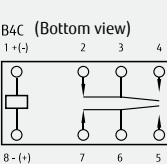
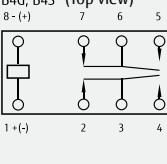
Dimensions (W x L x H mm)	37.0 x 43.0 x 22.0
Weight (approx.)	70 g
Contact form	1 a
Contact rating (Resistive load)	120A, 277VAC
Minimum switching load (ref.)	50mA, 100VAC
Mechanical life	1 x 10 ⁶ ops.
Electrical life (Rated load)	10 x 10 ³ ops.
Operating temperature	-40 to 85 °C
Coil voltage	100VAC (1 coil latching)
Nominal coil power	18VA
Surge strength	12,000 V (1.2 x50μs)
Dielectric strength (1 min.)	Open contacts: 2,000VAC Coil and contacts: 4,000VAC
Safety standards	-
Mounting / Enclosure	Coil: thru hole / Load: screws

Terminal layout (bottom view)	
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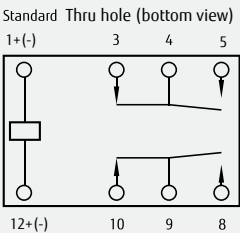
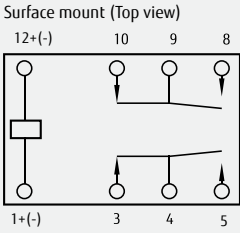
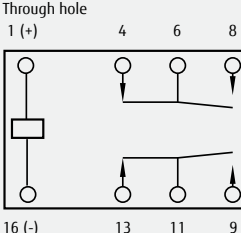
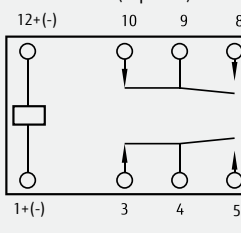
Signal relays (1A ~ 2A)

Series Name	SY	RY	A
			
Description	1 to 2A Slim Type Relay	1 to 2A Signal Relay	1 to 2A Low Profile Relay
Remarks	<ul style="list-style-type: none"> ■ DIL pitch terminals ■ Single or bifurcated contact types 	<ul style="list-style-type: none"> ■ High dielectric strength types ■ MBB contact available 	<ul style="list-style-type: none"> ■ 1 and 2 coil latching versions available ■ DIL pitch terminals
Dimensions (W x L x H mm)	7.4 x 12.5 x 9.5	9.8 x 20.2 x 12.5	9.4 x 14.0 x 5.0
Weight (approx.)	1.7 g	5.0 g	1.2 g
Contact form	1 c	2 c / 2 d	2 c
Contact rating (Resistive load)	0.5A 120VAC, 1A 24VDC	0.5 120VAC, 1A 24VDC (RY-W, WZ) 0.25A 120VAC, 1A 24VDC (RY-WF) 0.4A 100VAC, 2A 30VDC (RY-WFZ)	0.5A 125VAC 1A, 30VDC
Minimum switching load (ref.)	0.1VDC, 0.1mA (SY-W) 1VDC 1mA (SY)	10mVDC 0.01A	10mVDC 0.01mA
Mechanical life	5 x 10 ⁶ ops.	20 x 10 ⁶ ops. (W) 10 x 10 ⁶ ops. (WF, WZ, WFZ)	100 x 10 ⁶ ops. 10 x 10 ⁶ ops. (latching)
Electrical life (Rated load)	100 x 10 ³ ops.	100 x 10 ³ ops. (WFZ) 200 x 10 ³ ops. (W, WZ) (AC) 500 x 10 ³ ops. (W, WZ, WF) (DC)	500 x 10 ³ ops. (DC) 200 x 10 ³ ops. (AC)
Coil voltage (DC)	1.5 to 24 V	3 to 48 V	1.5 to 24 V (48 V Only standard type)
Nominal coil power	0.15 to 0.175 W	0.15 to 0.58 W	0.1 to 0.3 W
Surge strength	1,500 V	1,500 V	1,500 V
Dielectric strength (1 min.)	Open contacts: 300/400VAC Coil and contacts: 1,000VAC	Open contacts: 500VAC (W, WZ, WFZ) 1,000VAC (WF) Coil and contacts: 1,000VAC	Open contacts: 1,000VAC Coil and contacts: 1,000VAC
Safety standards	UL, CSA, FCC68	UL, CSA, FCC68	UL, CSA, FCC68
Mounting / Enclosure	Through hole / RTIII	Through hole / RTIII	Through hole / RTIII
Terminal layout (bottom view)			<p>A, AL</p>  <p>AL-D</p> 

Signal relays (1A ~ 2A)

Series Name	NA	FTR-B3	FTR-B4
			
Description	1 to 2A Slim Type Relay	2A Low Profile Relay	2A Slim Type Relay
Remarks	<ul style="list-style-type: none"> Latching type available 	<ul style="list-style-type: none"> Latching type available Space saver versions available THT and SMT versions 	<ul style="list-style-type: none"> Latching type available Space saver versions available THT and SMT versions
Dimensions (W x L x H mm)	7.4 x 14.9 x 9.7	7.2 x 10.6 x 5.45	5.7 x 10.6 x 9.0
Weight (approx.)	1.6 g	0.85 g	1.0 g
Contact form	2 c	2 c	2 c
Contact rating (Resistive load)	0.5A 125VAC 1A 30VDC	0.3A 125VAC 1A 30VDC	0.3A 125VAC 1A 30VDC
Minimum switching load (ref.)	10mVDC 0.01mA	10mVDC 0.01mA	10mVDC 0.01mA
Mechanical life	100 x 10 ⁶ ops. 10 x 10 ⁶ ops. (latching)	50 x 10 ⁶ ops. 20 x 10 ⁶ ops. (latching)	50 x 10 ⁶ ops. 20 x 10 ⁶ ops. (latching)
Electrical life (Rated load)	500 x 10 ³ ops. (DC) 200 x 10 ³ ops. (AC)	100 x 10 ³ ops.	100 x 10 ³ ops.
Coil voltage (DC)	1.5 to 24 V (48V Only standard type)	1.5 to 24 V	1.5 to 24 V
Nominal coil power	0.1 to 0.3 W	0.1 to 0.23 W	0.1 to 0.23 W
Surge strength	2,500 V (NA, NAL) 1,500 V (NAL-D)	2,500 V	2,500 V
Dielectric strength (1 min.)	Open contacts: 1,000VAC Coil and contacts: 1,500VAC (NA, NAL) 1,000VAC (NAL-D)	Open contacts: 1,000VAC Coil and contacts: 1,500VAC	Open contacts: 1,000VAC Coil and contacts: 1,500VAC
Safety standards	UL, CSA, FCC68, Telcordia, IEC60950-1	UL, CSA, BSI, FCC68, Telcordia, IEC60950-1	UL, CSA, FCC68, Telcordia, IEC60950-1
Mounting / Enclosure	Through hole / RTIII	Through hole / Surface mount / RTIII	Through hole / Surface mount / RTIII
Terminal layout (bottom view)	 	 	 

Signal relays (1A ~ 2A)

Series Name	FTR-C1	FTR-C2
		
Description	2A Miniature Relay	2A Miniature Relay
Remarks	<ul style="list-style-type: none"> ■ Latching type available ■ Contact gap 0.6mm ■ Creepage>2.5mm, clearance >2.0mm ■ High surge strength 	<ul style="list-style-type: none"> ■ Contact gap 2mm ■ Creepage 2.5mm, clearance 2mm ■ THT and SMT versions
Dimensions (W x L x H mm)	7.5 x 15.0 x 9.3	9.85 x 20.05 x 11.4
Weight (approx.)	2.0 g	3.7 g
Contact form	2 c	2 c
Contact rating (Resistive load)	0.3A 125VAC 1A 30VDC	0.3A 125VAC 1A 30VDC
Minimum switching load (ref.)	10mVDC 0.01mA	10mVDC 0.01mA
Mechanical life	10 x 10 ⁶ ops.	10 x 10 ⁶ ops.
Electrical life (Rated load)	100 x 10 ³ ops.	100 x 10 ³ ops.
Coil voltage (DC)	3 to 24 V	3 to 24 V
Nominal coil power	0.14 to 0.3 W	0.15 to 0.3 W
Surge strength	5,000 V	2,500 V
Dielectric strength (1 min.)	Open contacts: 1,500VAC Coil and contacts: 3,000VAC	Open contacts: 1,500VAC Coil and contacts: 2,000VAC
Safety standards	UL, CSA, BSI, Telcordia	UL, CSA, BSI, Telcordia, IEC60950-1
Mounting / Enclosure	Through hole / Surface mount / RTIII	Through hole / Surface mount / RTIII
Terminal layout (bottom view)	<p>Standard Thru hole (bottom view)</p>  <p>Surface mount (Top view)</p> 	<p>Through hole</p>  <p>Surface mount (Top view)</p> 

High Frequency relays

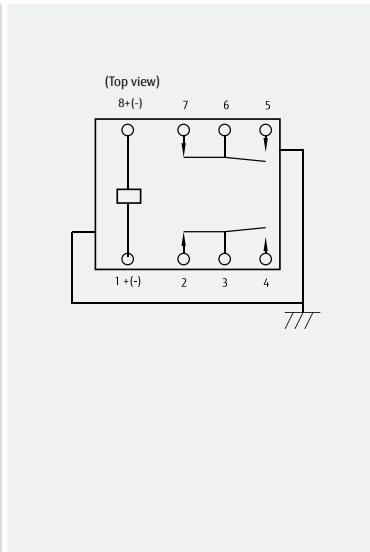
Series Name	FTR-B3-RF
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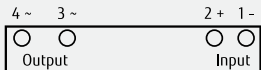
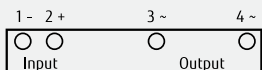
Description	2A GHz RF Relay
Remarks	<ul style="list-style-type: none"> ■ Latching type available ■ S.M. space saver versions

Dimensions (W x L x H mm)	7.7 x 13.6 x 5.45
Weight (approx.)	1.3 g
Contact form	2 c
Contact rating (Resistive load)	0.3A 125VAC 1A 30VDC, 1W (@1GHz)
Minimum switching load (ref.)	10mVDC 0.01mA
RF characteristics (@ 75 Ω)	3W @ 1GHz-switching 1W @ 1GHz-carry Isolation > 30dB @ 1GHz Insertion loss < 0.2dB @ 1Hz V.S.W.R. < 1.2 @ 1Hz
Mechanical life	50 x 10 ⁶ ops., 20 x 10 ⁶ ops
Electrical life (Rated load)	100 x 10 ³ ops.
Coil voltage (DC)	1.5 to 24 V
Nominal coil power	0.1 to 0.23 W
Dielectric strength (1 min.)	Open contacts: 750VAC Coil and contacts: 750VAC
Safety standards	-
Mounting / Enclosure	Surface mount / RTIII



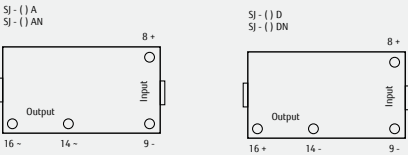
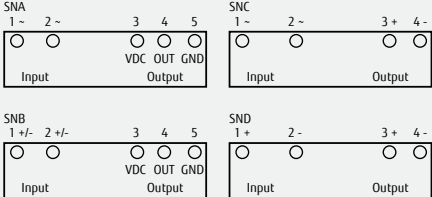
Terminal layout (bottom view)



Solid State relays (1A ~ 3A)

Series Name		FTR-SL		SE			
							
Description		1A AC SSR		1.5A / 2A AC SSR			
Type				1.5 A type	2 A type		
Remarks		<ul style="list-style-type: none"> ■ Pin compatible with FTR-LY ■ Internal zero cross circuit available ■ Internal varistor and snubber circuit 		<ul style="list-style-type: none"> ■ Internal zero cross circuit available 			
Dimensions (W x L x H mm)		5.0 x 28.0 x 15.0		5.0 x 20.0 x 17.0	5.0 x 20.0 x 20.0		
Weight (approx.)		4.0 g		4.0 g	5.1 g		
Current		1.0 A		1.5 A	2 A		
Voltage type		AC		AC			
Nominal Voltage		5, 12, 24, 60 VDC		3, 5, 12, 24 VDC			
Input side	Impedance	5 V	560 Ω	3 V	130 Ω	3 V	130 Ω
		12 V	1.3k Ω	5 V	330 Ω	5 V	330 Ω
		24 V	2.4k Ω	12 V	1.0k Ω	12 V	1.0k Ω
		60 V	10k Ω	24 V	2.2k Ω	24 V	2.2k Ω
Output side	Load voltage range	AC 24 to 250 VAC rms		24 to 265 V rms			
	Max. load current	1.0 A rms		1.5 A rms	2 A rms		
	Min. load current	0.01 mA rms		10 mA rms			
	1 cycle surge current	50 A		50 A			
	Max. off-state leakage current	1 mA rms		0.5 / 1.0 mA rms		1.0 / 2.0 mA rms	
Max. on-state voltage drop	1.3 V rms		1.2 V rms		1.3 V rms		
Max. operating time		1/2 cycle + 1 ms		1 ms (without zero cross), 1/2 cycle + 1ms (with zero cross)			
Max. release time		1/2 cycle + 1 ms		1/2 cycle + 1 ms			
Operating temperature		-30°C to +85°C		-30°C to +85°C			
Storage temperature		-40°C to +100°C		-40°C to +100°C			
Dielectric strength (I/O)		2.500 V rms		2.500 V rms			
Safety standards		-		-			
Mounting		Through hole		Through hole			
Terminal layout (bottom view)							

Solid State relays (1A ~ 3A)

Series Name	SJ				SN						
											
Description	1A AC/DC SSR				1A AC/DC SSR						
Remarks	<ul style="list-style-type: none"> ■ Pin compatible with JY ■ Internal surge absorber ■ Socket available 				<ul style="list-style-type: none"> ■ Compatible with NY ■ Internal surge absorber ■ Socket available 						
Dimensions (W x L x H mm)	10.0x20.0x12.8				5.0x20.0x17.0						
Module	-				Input (AC)	Input (DC)	Output (AC)	Output (DC)			
Weight (approx.)	5.5 g				20g	3.3 g	3.5 g	2.9 g			
Current	1.0A						1A				
Voltage type	AC		DC		AC	DC	AC	DC			
Nominal Voltage	3, 5, 12, 24 VDC		5, 12, 24 VDC		100 VAC	12, 24 VDC	3, 5, 12, 24 VDC	5, 12, 24 VDC			
Input side	Impedance	3 V	120 Ω	-	-	-	3 V	130/180 Ω	-	-	
		5 V	360 Ω	5 V	430 Ω	-	-	5 V	330/470 Ω	5 V	390 Ω
		12 V	1.0k Ω	12 V	1.2k Ω	-	-	12 V	1.0/1.5k Ω	12 V	1.2k Ω
		24 V	2.0k Ω	24 V	2.4k Ω	-	-	24 V	2.2k/3.0k Ω	24 V	2.4k Ω
Output side	Load voltage range	24 to 265 V rms		3 to 30 VDC		4 to 6 VDC		24 to 265 V rms		3 to 30 VDC	
	Max. load current	1.0A rms		1.0A		±4 mA (VDD=5 V)	±0.4 mA (VDD=5 V)	1.0A rms		1.0A	
	Min. load current	10 mA rms		1 mA		-	-	10 mA rms		1 mA	
	1 cycle surge current	50 A		3.0A (10ms)		-	-	50 A		3 A (10ms)	
	Max. off-state leakage current	0.75 / 1.5 mA rms		0.1 mA		-	-	1.5/3.0 mA rms		0.1 mA	
	Max. on-state voltage drop	1.2V rms		1.2V		-	-	1.2V rms		1.2V	
Max. operating time	1 ms				25 ms	10 ms	1 ms				
Max. release time	1/2 cycle + 1 ms		1 ms		30 ms	10 ms	1/2 cycle + 1 ms		1 ms		
Operating temperature	-30°C to +85°C				-30°C to +85°C						
Storage temperature	-40°C to +100°C				-40°C to +100°C						
Dielectric strength (I/O)	2,500 V rms				2,500 V rms						
Safety standards	UL, CSA				-						
Mounting	Through hole				Through hole						
Terminal layout (bottom view)											

Fujitsu Optical Components Line-up



Part Number	Data Rate [Gbps]	Wavelength [nm]	Max Power Consumption [W]	Tc [°C]	Size (L x W x H) [inches]	Distance [km]	Dispersion [ps/nm]	400Gbps - 600Gbps	200Gbps	100Gbps			
OIF 168pin Coherent Transceiver													
FIM85200	127.156	Full C-band Tunable (50GHz spacing)	(*1)	0 to 70	5.0 x 4.0 x 0.59		±40ns/nm						
CFP DCO Transceiver													
FIM38000/101	111.810	Full C-band Tunable (50GHz spacing)	(*1)	0 to 70	5.71 x		±2ns/nm						
FIM38100/101	111.810		(*1)		3.03 x		±20ns/nm						
FIM38200/101	131.103		(*1)		0.55		±20ns/nm						
CFP2 DCO Transceiver													
FIM38710/101 (*3) FIM38710/102 (*3)	111.810	Full C-band Tunable	(*1)	0 to 70	4.23 x 1.63 x 0.49		±2ns/nm ±12ns/nm ±25ns/nm ±40ns/nm						
CFP2 ACO Transceiver													
(Class1) FIM38500	127.156	Full C-band Tunable	12	0 to 70	4.23 x 1.63 x 0.49		(*2)						
(Class2) FIM38550/110	(*2)							(*2)					
High Bandwidth CFP2 ACO Transceiver													
FIM38650 (*3)	(*2)	Full C-band Tunable	14	0 to 70	4.23 x 1.63 x 0.49		(*2)						

(*1) Available upon request (*2) Depends on modulation format (*3) Under development

Part Number	Baud Rate (Gbaud)	Drive Method	Wavelength [nm]	Drive Voltage (Vr) (at RF) [V]	Alpha Parameter	RF Connector	Tc [°C]	Size (L x W x H) [inches]	DP-xQAM	DP-QPSK	
LiNbO₃ Modulator											
FTM7992HM	64	Single - Ended	C-band	≤4.2 (at 64Gbps)	0	G3PO	-5 to 75	3.22 x 0.49 x 0.26			
FTM7990HKA (*1)	32		C-band	≤ 3.5 (at 32Gbps)		FPC		3.23 x 0.39 x 0.22			
FTM7977HQA			L-band			GPPO		3.56 x 0.52 x 0.27			





(*1) SFF type

● 400G ● 200G ● 100G

Part Number	Baud Rate (Gbaud)	3dB Cut-off Freq. [GHz]	Wavelength [nm]	Output Volt. Swing [mVp-p]	Power Consumption [W]	RF Connector	Tc [°C]	Size (L x W x H) [inches]	DP-xQAM	DP-QPSK	
Integrated Coherent Receiver											
FIM24901 (*1)	64	Typ. 40	1528 to 1567	300 to 700	Typ. 1.4	CPW	-5 to 85	0.98 x 0.47 x 0.22			
FIM24721 (*1)	32	Typ. 22		300 to 900	Max. 1.7	CPW		0.98 x 0.47 x 0.22			

(*1) VOA integrated type

● 400G ● 200G ● 100G

Part Number	Data Rate [Gbps]	Wavelength [nm]	Max Power Consumption [W]	Tc [°C]	Size (L x W x H) [inches]	Distance [km]	Dispersion [ps/nm]	100G OTN (OTU-4)	100G Ethernet	50G Ethernet	
100G CFP Transceiver											
FIM37102	103.1/ 111.8	L0: 1294.53 to 1296.59	15	-5 to 70	5.71 x 3.03 x 0.55	10		●	●		
FIM37202		L1: 1299.02 to 1301.09 L2: 1303.54 to 1305.63 L3: 1308.09 to 1310.19	16								
100G CFP2 Transceiver											
FIM37302	103.1/ 111.8	L0: 1294.53 to 1296.59	8	-5 to 70	4.23 x 1.63 x 0.49	10		●	●		
FIM37402		L1: 1299.02 to 1301.09 L2: 1303.54 to 1305.63 L3: 1308.09 to 1310.19	9								
100G QSFP28 Transceiver											
FIM37700	103.1	L0: 1294.53 to 1296.59 L1: 1299.02 to 1301.09 L2: 1303.54 to 1305.63 L3: 1308.09 to 1310.19	4	0 to 70	2.8 x 0.72 x 0.33	10		●	●		
FIM37701	111.8		4			10					
FIM37800	103.1/ 111.8		5			30/40 (*1)					
FIM37801	111.8		4.5								
QSFP28 DMT Transceiver											
FIM37910	103.1 (*2)	1260 to 1300 1λ	(*3)	-40 to 85	2.8 x 0.72 x 0.33	10		●			
FIM37920	53.125 (*2)	Full C-band tunable	(*3)	-40 to 85	2.8 x 0.72 x 0.33	20			●		

(*1) 30km interoperability w/ existing ER4 (w/o FEC)
40km w/ host card's RS(528, 514) FEC
(*2) Under consideration of CPRI bitrate
(*3) Available upon request

● DWDM ● TDM






Fujitsu Components America

For Embedded, Kiosk & Mobile Printing

Thermal Printers



Applications: Kiosk, Medical, ATM, Coupons, HandHeld, Bar Codes, POS, Ticketing, Gaming, Labels, Instruments, Tickets, Mobile

FIXED HEAD THERMAL MECHANISMS and INTERFACE CONTROL BOARDS - for Embedded Solutions														
Voltage	Paper			Part Number	Paper Type(s)			Print Speed mm/s	Body	Parallel Interface Board P/N	Serial Interface Board P/N	High Speed Serial Interface Board P/N	USB Interface Board P/N	
	24 or 5	Width	Paper Path		Auto Cutter	Thin	Medium							
24	2"	Front	No	FTP-627MCL053	X			100	Diecast	FTP-627DCL218	FTP-627DSL238			
24	2"	Bottom	No	FTP-627MCL054	X			100	Diecast	FTP-627DCL218	FTP-627DSL238			
24	2"	Top	No	FTP-627MCL103	X			100	Diecast	FTP-627DCL218R	FTP-627DSL238R			
24	2"	Top	Yes	FTP-627MCL401	X			100	Diecast	FTP-627DSL291R	FTP-627DSL291R	FTP-627DSL356R	FTP-627DSL354R	
24	2"	Top	Yes	FTP-627MCL411	X			200	Diecast			FTP-627DSL405R	FTP-627DSL403R	
24	2"	Top	Yes	FTP-627MCL601	X			150	Diecast			FTP-627DSL366R	FTP-627DSL364R	
24	3"	Top	No	FTP-637MCL103	X			100	Diecast	FTP-637DCL218R	FTP-637DSL238R			
24	3"	Top	Yes	FTP-637MCL401	X			100	Diecast	FTP-637DSL291R	FTP-637DSL291R	FTP-627DSL376R	FTP-627DSL374R	
24	3"	Top	Yes	FTP-637MCL411	X			170	Diecast			FTP-627DSL415R	FTP-627DSL413R	
24	3"	Top	Yes	FTP-637MCL601	X			150	Diecast			FTP-627DSL386R	FTP-627DSL384R	
24	2"	Bottom	No	FTP-629MCL054R	X	X		200	Diecast	FTP-629DCL014R	FTP-629DSL034R	FTP-629DSL304R	FTP-629DSL304R	
24	2"	Front	Yes	FTP-629MCL353R	X			200	Diecast	FTP-629DCL014R	FTP-629DSL034R	FTP-629DSL301R	FTP-629DSL301R	
24	2"	Bottom	Yes	FTP-629MCL354R	X			200	Diecast	FTP-629DCL014R	FTP-629DSL034R	FTP-629DSL301R	FTP-629DSL301R	
24	2"	Top	No	FTP-629MCL103R	X	X		200	Diecast	FTP-629DCL014R	FTP-629DSL034R	FTP-629DSL304R	FTP-629DSL304R	
24	2"	Top	Yes	FTP-629MCL383R	X	X		200	Diecast	FTP-629DCL014R	FTP-629DSL034R	FTP-629DSL301R	FTP-629DSL301R	
24	3"	Bottom	No	FTP-639MCL054R	X	X		200	Diecast	FTP-629DCL014R	FTP-629DSL034R	FTP-629DSL304R	FTP-629DSL304R	
24	3"	Front	Yes	FTP-639MCL353R	X			200	Diecast	FTP-629DCL014R	FTP-629DSL034R	FTP-629DSL301R	FTP-629DSL301R	
24	3"	Bottom	Yes	FTP-639MCL354R	X			200	Diecast	FTP-629DCL014R	FTP-629DSL034R	FTP-629DSL301R	FTP-629DSL301R	
24	3"	Top	No	FTP-639MCL103R	X			200	Diecast	FTP-629DCL014R	FTP-629DSL034R	FTP-629DSL304R	FTP-629DSL304R	
24	3"	Top	Yes	FTP-639MCL383R	X			200	Diecast	FTP-629DCL014R	FTP-629DSL034R	FTP-629DSL301R	FTP-629DSL301R	
24	3"	Top	No	FTP-63AMCL011		X		250	Diecast			FTP-62ADSL013	FTP-62ADSL003	
24	3"	Top	No	FTP-63AMCL111			X	250	Diecast			FTP-62ADSL013	FTP-62ADSL003	
24	3"	Top	Yes	FTP-63AMCL311			X	250	Diecast			FTP-62ADSL012	FTP-62ADSL002	
24	3"	Top	Yes	FTP-63AMCL411		X		250	Diecast			FTP-62ADSL011	FTP-62ADSL001	
5	2"	Front	No	FTP-628MCL053	X			60	Diecast	FTP-628DCL300R	FTP-628DSL305R	FTP-628DSL603R	FTP-628DSL602R	
5	2"	Bottom	No	FTP-628MCL054	X			60	Diecast	FTP-628DCL300R	FTP-628DSL305R	FTP-628DSL603R	FTP-628DSL602R	
5	2"	Top	No	FTP-628MCL103	X			60	Diecast	FTP-628DCL300R	FTP-628DSL305R	FTP-628DSL603R	FTP-628DSL602R	
5	2"	Top	No	FTP-628MCL123	X			60	Diecast	FTP-628DCL300R	FTP-628DSL305R	FTP-628DSL603R	FTP-628DSL602R	
5	2"	Top	No	FTP-628MCL203	X			60	Diecast	FTP-628DCL300R	FTP-628DSL305R	FTP-628DSL603R	FTP-628DSL602R	
5	2"	Top	Yes	FTP-628MCL401	X			60	Diecast	FTP-628DSL491R	FTP-628DSL491R			
6	2"	Top	Yes	FTP-628MCL751	X			60	Diecast			FTP-628DSL643R	FTP-628DSL642R	
5	3"	Top	No	FTP-638MCL103	X			60	Diecast	FTP-628DCL300R	FTP-628DSL305R	FTP-628DSL603R	FTP-628DSL602R	
5	3"	Top	Yes	FTP-638MCL401	X			60	Diecast	FTP-628DSL491R	FTP-628DSL491R			
5	4"	Top	No	FTP-648MCL103	X			60	Diecast			FTP-628DSL623R	FTP-628DSL622R	
5	4"	Bottom	No	FTP-648MCL104		X		60	Diecast			FTP-628DSL623R	FTP-628DSL622R	

***** Interface cable assemblies ordered seperately

Applications: Delivery, Hospitality, Kiosk, Medical Receipts and labels

2 and 3 inch PRINTER "INTEGRATED" UNITS - for Kiosk and Portable Wireless Printing													
Voltage	Paper Width	Paper Path	Auto Cutter	Part Number	Paper Diameter	Paper Thickness	Print Speed	Drop Height	Interface Controller Type		Power Type	Package contains	
24	2"	Front	Y	FTP-627USL410	60mm	60 - 120um	100	N/A	Serial/USB		24V	Mechanism/cutter/board	
24	2"	Front	Y	FTP-627USL440	83mm	60 - 120um	100	N/A	Serial/USB		24V	Mechanism/cutter/board	
24	3"	Side	Y	FTP-639USL102	150mm	60 - 120um	200	N/A	Serial/USB		24V	Mechanism/cutter/board	
24	3"	Side	Y	FTP-639USL202	150mm	60 - 120um	200	N/A	Serial/USB		24V	Mechanism/cutter/board/ presenter/	
3.7	2"	Top	No	FTP-628WSL120#11	36mm	60 - 80um	40	1.5 meter	Serial (RS232) & IrDA		Li-Ion Battery	Battery, A/C adaptor, clip	
3.7	2"	Top	No	FTP-628WSL210#20	36mm	60 - 80um	40	1.5 meter	Apple iOS Bluetooth, USB		Li-Ion Battery	Battery, A/C adaptor	
3.7	2"	Top	No	FTP-628WSL211#20	36mm	60 - 80um	40	1.5 meter	Bluetooth/USB 2.0		Li-Ion Battery	Battery, A/C adaptor	
3.7	2"	Top	No	FTP-628WSL212#20	36mm	60 - 80um	40	1.5 meter	USB 2.0		Li-Ion Battery	Battery, A/C adaptor	

- 1) Interface and Power cable assemblies are ordered seperately see website
- 2) Application notes, specifications, operating manual, software drivers, PC connections, paper roll selection guide see website
- 3) For tech support please contact you local Fujitsu Sales Rep see website Sales Contacts

Battery Printers



2-inch Battery Printers

Active

Part number	Speed (mm/s)	Paper Feed	Platen	Cutter
FTP-628MCL053	80	Front	Fixed	No cutter
FTP-628MCL054	80	Bottom	Fixed	No cutter
FTP-628MCL101	80	Top	Detachable	No cutter
FTP-628MCL101#21	60	Top	Detachable	No cutter
FTP-628MCL103	80	Top	Detachable	No cutter
FTP-628MCL103#70	80	Top	Detachable	No cutter
FTP-628MCL113	80	Top	Lever/lock	No cutter
FTP-628MCL353	80	Front	Fixed	Auto cutter
FTP-628MCL354	80	Bottom	Fixed	Auto cutter
FTP-628MCL401	80	Top	Lever/lock	Easy cutter
FTP-628MCL701	80	Top	Detachable	No cutter
FTP-628MCL751	80	Top	Detachable	No cutter
FTP-62DMCL101	100	Bottom	Detachable	No cutter
FTP-62DMCL111	100	Bottom	Detachable	No cutter
FTP-62HMCL153	120	Rear	Lever/lock	Auto cutter
FTP-63HMCL153	120	Rear	Lever/lock	Auto cutter

3-inch Battery Printers

Active

Part number	Speed (mm/s)	Paper Feed	Platen	Cutter
FTP-634MCL001	50	Front	Fixed	No cutter
FTP-634MCL002	50	Bottom	Fixed	No cutter
FTP-638MCL101	60	Top	Detachable	No cutter
FTP-638MCL103	60	Top	Detachable	No cutter
FTP-638MCL401	60	Top	Lever/lock	Easy cutter

4-inch Battery Printers

Active

Part number	Speed (mm/s)	Paper Feed	Platen	Cutter
FTP-644MCL001	50	Front	Fixed	No cutter
FTP-644MCL002	50	Bottom	Fixed	No cutter
FTP-648MCL103	50	Top	Lever/lock	No cutter
FTP-648MCL104	50	Bottom	Lever/lock	No cutter

24 Volt Mechanisms



2-inch 24V Mechanism

Active

Part number	Speed (mm/s)	Paper Feed	Platen	Cutter
FTP-622MCL101	100	Front		No cutter
FTP-622MCL102	100	Rear		No cutter
FTP-622MCL353	100	Front		Auto cutter
FTP-622MCL354	100	Rear		Auto cutter
FTP-627MCL053	100	Front	Fixed	No cutter
FTP-627MCL054	100	Bottom	Fixed	No cutter
FTP-627MCL103	100	Top	Detachable	No cutter
FTP-627MCL113	100	Top	Lever/lock	No cutter
FTP-627MCL353	100	Front	Fixed	Auto cutter
FTP-627MCL354	100	Bottom	Fixed	Auto cutter
FTP-627MCL401	100	Top	Lever/lock	Easy cutter
FTP-627MCL411	200	Top	Lever/lock	Easy cutter
FTP-629MCL054	200	Bottom	Fixed	No cutter
FTP-629MCL103	200	Top	Lever/lock	No cutter
FTP-629MCL353	200	Front	Fixed	Auto cutter
FTP-629MCL354	200	Bottom	Fixed	Auto cutter
FTP-629MCL383	200	Top	Lever/lock	Easy cutter
FTP-62GMCL153	200	Rear	Lever/lock	No cutter
FTP-62GMCL453	200	Rear	Lever/lock	Auto cutter

3-inch 24V Mechanism

Active

Part number	Speed (mm/s)	Paper Feed	Platen	Cutter
FTP-622MCL101	100	Front		No cutter
FTP-622MCL102	100	Rear		No cutter
FTP-622MCL353	100	Front		Auto cutter
FTP-622MCL354	100	Rear		Auto cutter
FTP-627MCL053	100	Front	Fixed	No cutter
FTP-627MCL054	100	Bottom	Fixed	No cutter
FTP-627MCL103	100	Top	Detachable	No cutter
FTP-627MCL113	100	Top	Lever/lock	No cutter
FTP-627MCL353	100	Front	Fixed	Auto cutter
FTP-627MCL354	100	Bottom	Fixed	Auto cutter
FTP-627MCL401	100	Top	Lever/lock	Easy cutter
FTP-627MCL411	200	Top	Lever/lock	Easy cutter
FTP-629MCL054	200	Bottom	Fixed	No cutter
FTP-629MCL103	200	Top	Lever/lock	No cutter
FTP-629MCL353	200	Front	Fixed	Auto cutter
FTP-629MCL354	200	Bottom	Fixed	Auto cutter
FTP-629MCL383	200	Top	Lever/lock	Easy cutter
FTP-62GMCL153	200	Rear	Lever/lock	No cutter
FTP-62GMCL453	200	Rear	Lever/lock	Auto cutter

24 Volt Mechanisms



4-inch 24V Mechanism

Part number	Speed (mm/s)	Paper Feed	Platen	Cutter
FTP-641MCL101	100	Front		No cutter
FTP-641MCL102	100	Rear		No cutter
FTP-642MCL001	80	Front	Fixed	No cutter
FTP-642MCL002	80	Bottom	Fixed	No cutter
FTP-642MCL301	80	Front	Fixed	Auto cutter
FTP-642MCL302	80	Bottom	Fixed	Auto cutter

Архангельск (8182)63-90-72	Ижевск (3412)26-03-58	Магнитогорск (3519)55-03-13	Пермь (342)205-81-47	Сургут (3462)77-98-35
Астана (7172)727-132	Иркутск (395)279-98-46	Москва (495)268-04-70	Ростов-на-Дону (863)308-18-15	Тверь (4822)63-31-35
Астрахань (8512)99-46-04	Казань (843)206-01-48	Мурманск (8152)59-64-93	Рязань (4912)46-61-64	Томск (3822)98-41-53
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