

Datasheet.Directory

Transistor output Type																			
Model Number	Internal Connection Diagram	Absolute Maximum Ratings				Electro-optical Characteristics					Safty standards approval						Remark		
		IF (mA)	VCEO (V)	IC (mA)	Viso (Vrms)	Vf max (V)	CTR%	IF=5mA Vce=5V	VCE (sat) max (V)	Tr (us)	Tf (us)	UL	VDE	TUV	FIMKO	NEMKO	SEMKO	Series Product	Description
C1010		50	70	50	5000	1.4	50-600	IF=5mA Vce=5V	0.2	3	3	Δ	Δ	Δ	○	Δ	Δ		
K1010		50	60	50	5000	1.4	50-600	IF=5mA Vce=5V	0.2	4	3	○	○	○	○	○	○	KP1020 KP1040	2-Channel 4-Channel
K2010		50	60	50	5000	1.4	60-600	IF=2mA Vce=5V	0.3	5	4	○	○	○	○	○	○		
K3010		± 60	60	50	5000	1.4	60-600	IF=±1mA Vce=5V	0.3	5	4	○	○	○	○	○	○	KP3020 KP3040	2-Channel 4-Channel
KP4010		50	300	150	5000	1.4	600-9000	IF=1mA Vce=2V	1.5	60	50	○	○	○	○	○	○	KP4020 KP4040	2-Channel 4-Channel
KP5010		50	300	150	5000	1.4	600-9000	IF=1mA Vce=2V	1.5	60	50	○	○	○	○	○	○		
KP6010		± 50	60	50	5000	1.4	60-600	IF=±1mA Vce=5V	0.3	5	4	○	○	○	○	○	○		
KPC4N33		50	30	150	5000	1.4	500 Min.	IF=1mA Vce=2V	1.0	5	60	○	○						
KPC815		50	35	80	5000	1.4	600-7500	IF=1mA Vce=2V	1.0	80	72	○	○	○	○			KPC825 KPC845	2-Channel 4-Channel

IC output Type																			
Model Number	Internal Connection Diagram	Absolute Maximum Ratings				Electro-optical Characteristics					Safty standards approval						Remark		
		IF (mA)	Vcc max (V)	IO (mA)	Viso (Vrms)	IccL	ICCH	IFLH	IFHL	tPHL (us)	tPLH (us)	UL	VDE	TUV	FIMKO	NEMKO	SEMKO	Series Product	Description
KP7010		10	17	50	5000	1.7	0.7	0.5	0.4	5	3	○							
KP7110		50	17	50	5000	1.7	0.7	0.4	0.5	3	5	○							
KP8010		20	35	500	2500	7.5	7	1.2	-	0.15	0.15								Under Developing

Mini Flat Type																			
Model Number	Internal Connection Diagram	Absolute Maximum Ratings				Electro-optical Characteristics					Safty standards approval						Remark		
		IF (mA)	VCEO (V)	IC (mA)	Viso (Vrms)	Vfmax (V)	CTR%	VCE max (V)	Tr (us)	Tf (us)	UL	VDE	TUV	FIMKO	NEMKO	SEMKO	Series Product	Description	
KPC354NT		±50	60	50	3750	1.4	20-400	IF=±1mA Vce=5V	0.3	4	3	○	○	○					
KPC355NT		50	35	150	3750	1.4	600-7500	IF=1mA Vce=2V	1.0	60	53	○	○	○					
KPC357NT		50	60	50	3750	1.4	50-600	IF=5mA Vce=5V	0.3	5	4	○	○	○					
KPC452		50	300	150	3750	1.4	1000 min.	IF=1mA Vce=2V	1.5	100	20	○	○	○					

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High Speed Function Type																			
Model Number	Internal Connection Diagram	Absolute Maximum Ratings				Electro-optical Characteristics					Safty standards approval						Remark		
		IF (mA)	Vcc (V)	IO (mA)	Viso (Vrms)	Data Rate	CTR%	CMR Typ (V/us)	tPHL (us)	tPLH (us)	UL	VDE	TUV	FIMKO	NEMKO	SEMKO	Series Product	Description	
KPC6N135		25	15	8	2500	1M	7 Min.	IF=16mA V0=0.4V Vcc=4.5V	1000	0.3	0.4	○	○	○	○				
KPC6N136		25	15	8	2500	1M	19 Min.	IF=16mA V0=0.4V Vcc=4.5V	1000	0.3	0.3	○	○	○	○				
KPC6N137		20	7	50	2500	10M			500	0.1	0.1								Under Developing
KPC6N138		20	7	60	2500	-	300 Min.	IF=1.6mA V0=0.4V Vcc=4.5V	500	2	7	○	○	○	○				
KPC6N139		20	18	60	2500	-	500 Min.	IF=1.6mA V0=0.4V Vcc=4.5V	500	5	0.3	○	○	○	○				

Transistor output Type (SSOP)																			
Model Number	Internal Connection Diagram	Absolute Maximum Ratings				Electro-optical Characteristics					Safty standards approval						Remark		
		IF (mA)	VCEO (V)	IC (mA)	Viso (Vrms)	Vfmax (V)	CTR%	VC Emax (V)	Tr (us)	Tf (us)	UL	VDE	TUV	FIMKO	NEMKO	SEMKO	Series Product	Description	
KPS2801		50	80	50	2500	1.4	80-600	IF=5mA Vce=5V	0.3	3	5	○							
KPS2802		50	40	90	2500	1.4	2000 Typ.	IF=1mA Vce=2V	1.0	200	200	○							
KPS2805		±50	80	50	2500	1.4	80-600	IF=5mA Vce=5V	0.3	3	5	○							
KPS2806		±50	40	90	2500	1.4	2000 Typ.	IF=1mA Vce=2V	1.0	200	200	○							
KPS2832		50	300	60	2500	1.4	2000 Typ.	IF=1mA Vce=2V	1.0	40	10	○							

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Triac output Type																
Model Number	Internal Connection Diagram	Absolute Maximum Ratings			Electro-optical Characteristics					Safety standards approval						Remark
		IF (mA)	VDRM (VPEAK)	Viso (Vrms)	VF max (V)	IDRM max (nA)	IFT max (mA)	VTM Typ (V)	VINH max (V)	dv/dt min	UL	VDE	TUV	FIMKO	NEMKO	
KMOC3021		50	400	5000	1.5	100	15	1.6	-	600	○	○				
KMOC3022							10				○	○	○	○	○	○
KMOC3023							5				○	○	○			
KMOC3041		50	400	5000	1.5	500	15	1.6	20	600	○	○				
KMOC3042							10				○	○				
KMOC3043							5				○	○				
KMOC3051		50	600	5000	1.5	500	15	1.6	-	600	○	○				
KMOC3052							10				○	○				
KMOC3053							5				○	○				
KMOC3061		50	600	5000	1.5	500	15	1.6	20	600	○	○				
KMOC3062							10				○	○				
KMOC3063							5				○	○	○	○	○	○
KMOC3081		50	800	5000	1.5	500	15	1.6	20	600	○	○				
KMOC3082							10				○	○				
KMOC3083							5				○	○	○	○	○	○
KTLP160G		50	400	2500	1.4	1000	10	1.6	-	600	○	○				
KTLP161G		50	400	2500	1.4	1000	10	1.6	20	600	○	○				
KTLP160J		50	600	2500	1.4	1000	10	1.6	-	600	○	○				
KTLP161J		50	600	2500	1.4	1000	10	1.6	20	600	○	○				
KTLP165J		50	600	2500	1.4	1000	10	1.6	-	600	○	○				
KTLP166J		50	600	2500	1.4	1000	10	1.6	50	600	○	○				
KTLP168J		50	600	2500	1.4	1000	10	1.6	50	600	○	○				
KTLP260J		50	600	3000	1.4	1000	10	1.6	-	600	○	○				

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Normal Open Type																
Model Number	Contact Form	OUTPUT Characteristics					INPUT Characteristics					Safety standards approval			Remark	
		Load Voltage AC/DC max V _B (V)	Load Current max I _L (mA)	ON Resistance Typ AC/DC Ron(ohm)	T _{ON} (mS)	T _{OFF} (mS)	Output Off-State Leakage max I _{off} (uA)	Forward Voltage max VF(V)	Operation Input Current Typ I _{F ON} (mA)	Recovery Input Current min I _{F OFF} (mA)	Isolation Voltage min Viso(Vrms)	UL	TUV	FIMKO		Description
KAQY212 / A		60	400	0.83	1.5	1.5	1.0	1.5	1.5	0.2	3750	Δ	Δ	Δ		
KAQY212S		400	0.83	1.5	1.5	1.0	1.5	1.2	0.2	1500	Δ	Δ	Δ			
KAQY217 / A		200	180	6	1.0	1.0	1.0	1.5	1.5	0.2	3750	Δ	Δ	Δ		
KAQY217S		180	6	1.0	1.0	1.0	1.5	1.2	0.2	1500	Δ	Δ	Δ			
KAQY213/A		250	200	10	1.0	1.5	1.0	1.5	1.5	0.2	3750					
KAQY213S		200	10	1.0	1.5	1.0	1.5	1.2	0.2	1500						
KAQY210 / A		350	130	20	1.0	1.5	1.0	1.5	1.5	0.2	3750	○	○	○		
KAQY210S		130	20	1.0	1.5	1.0	1.5	1.2	0.2	1500	○	○	○			
KAQY214 / A		400	130	20	1.0	1.5	1.0	1.5	1.5	0.2	3750	○	○	○		
KAQY214S		130	20	1.0	1.5	1.0	1.5	1.2	0.2	1500	○	○	○			
KAQY216 / A		600	150	70	1.0	1.5	1.0	1.5	1.5	0.2	3750					
KAQY216S		120	70	1.0	1.5	1.0	1.5	1.2	0.2	1500						
KAQV212 / A		60	400	0.83	1.5	1.5	1.0	1.5	1.5	0.2	3750	○	○	○		
KAQV212S		400	0.83	1.5	1.5	1.0	1.5	1.2	0.2	1500	○	○	○			
KAQV217 / A		200	180	6	1.0	1.0	1.0	1.5	1.5	0.2	3750	Δ	Δ	Δ		
KAQV217S		180	6	1.0	1.0	1.0	1.5	1.2	0.2	1500	Δ	Δ	Δ			
KAQV213 / A		250	200	10	1.0	1.5	1.0	1.5	1.5	0.2	3750					
KAQV213S		200	10	1.0	1.5	1.0	1.5	1.2	0.2	1500						
KAQV210 / A		350	130	20	1.0	1.5	1.0	1.5	1.5	0.2	3750	○	○	○		
KAQV210S		130	20	1.0	1.5	1.0	1.5	1.2	0.2	1500	○	○	○			
KAQV214 / A		400	130	20	1.0	1.5	1.0	1.5	1.5	0.2	3750	○	○	○		
KAQV214S		130	20	1.0	1.5	1.0	1.5	1.2	0.2	1500	○	○	○			
KAQV216 / A		600	150	70	1.0	1.5	1.0	1.5	1.5	0.2	3750					
KAQV216S		120	70	1.0	1.5	1.0	1.5	1.5	0.2	1500						
KAQW212/A		60	400	0.83	1.5	1.5	1.0	1.5	1.5	0.2	3750	Δ	Δ	Δ		
KAQW212S		60	400	0.83	1.5	1.5	1.0	1.5	1.2	0.2	1500	Δ	Δ	Δ		
KAQW217/A		200	180	6	1.0	1.0	1.0	1.5	1.5	0.2	3750	Δ	Δ	Δ		
KAQW217S		180	6	1.0	1.0	1.0	1.5	1.2	0.2	1500	Δ	Δ	Δ			
KAQW213/A		250	200	10	1.0	1.0	1.0	1.5	1.5	0.2	3750					
KAQW213S		250	200	10	1.0	1.0	1.0	1.5	1.2	0.2	1500					
KAQW210/A		350	130	20	1.0	1.5	1.0	1.5	1.5	0.2	3750	○	○	○		
KAQW210S		130	20	1.0	1.5	1.0	1.5	1.2	0.2	1500	○	○	○			
KAQW214/A		400	130	20	1.0	1.5	1.0	1.5	1.5	0.2	3750	○	○	○		
KAQW214S		400	130	20	1.0	1.5	1.0	1.5	1.2	0.2	1500	○	○	○		
KAQW216/A		600	120	70	1.0	1.5	1.0	1.5	1.5	0.2	3750					
KAQW216S		600	120	70	1.0	1.5	1.0	1.5	1.2	0.2	1500					

Normal Open / low Input Current & ON Resistance Type																
Model Number	Contact Form	Load Voltage AC/DC max V _B (V)	Load Current max I _L (mA)	ON Resistance Typ AC/DC Ron(ohm)	T _{ON} (mS)	T _{OFF} (mS)	Output Off-State Leakage max I _{off} (uA)	Forward Voltage max VF(V)	Operation Input Current Typ I _{F ON} (mA)	Recovery Input Current min I _{F OFF} (mA)	Isolation Voltage min Viso(Vrms)	UL	TUV	FIMKO	Description	
KAQY212SE		60	200	7	1.5	1.5	1.0	1.5	1.2	0.2	1500	Δ	Δ	Δ		
KCP1017		60	130	7	1.0	1.5	1.0	1.5	0.8	0.2	1500	Δ	Δ	Δ		
KCP1008		100	150	6	2.0	1.0	1.0	1.5	1.2	0.2	1500	Δ	Δ	Δ		

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Normal Close Type															
Model Number	Contact Form	OUTPUT Characteristics					INPUT Characteristics					Safety standards approval			Remark
		Load Voltage AC/DC max V _B (V)	Load Current max I _L (mA)	ON Resistance Typ AC/DC Ron(ohm)	T _{ON} (mS)	T _{OFF} (mS)	Output Off-State Leakage max I _{loff} (uA)	Forward Voltage max VF(V)	Operation Input Current Typ IF _{ON} (mA)	Recovery Input Current min IF _{OFF} (mA)	Isolation Voltage min Viso(Vrms)	UL	TUV	FIMKO	
KAQY414 / A		400	130	25	1.5	1.0	2	1.5	0.2	1.5	3750	○	○	○	
KAQY414S			130	25	1.5	1.0	2	1.5	0.2	1.2	1500	○	○	○	
KAQV414 / A			130	25	1.5	1.0	2	1.5	0.2	1.5	3750	○	○	○	
KAQV414S			130	25	1.5	1.0	2	1.5	0.2	1.2	1500	○	○	○	
KAQW414 / A			130	25	1.5	1.0	2	1.5	0.2	1.5	3750	○	○	○	
KAQW414S			130	25	1.5	1.0	2	2	0.2	1.2	1500	○	○	○	
Normal Close + Normal Open Type															
Model Number	Contact Form	OUTPUT Characteristics					INPUT Characteristics					Safety standards approval			Remark
		Load Voltage AC/DC max V _B (V)	Load Current max I _L (mA)	ON Resistance Typ AC/DC Ron(ohm)	T _{ON} (mS)	T _{OFF} (mS)	Output Off-State Leakage max I _{loff} (uA)	Forward Voltage max VF(V)	Operation Input Current Typ IF _{ON} (mA)	Recovery Input Current min IF _{OFF} (mA)	Isolation Voltage min Viso(Vrms)	UL	TUV	FIMKO	
KAQW614 / A		400	130	N.O=20 N.C=25	N.O=1.0 N.C=1.5	N.O=1.5 N.C=1.0	N.O=1.0 N.C=2.0	1.5	N.O=1.5 N.C=0.2	N.O=0.2 N.C=1.5	3750	○	○	○	
KAQW614S			130	N.O=20 N.C=25	N.O=1.0 N.C=1.5	N.O=1.5 N.C=1.0	N.O=1.0 N.C=2.0	1.5	N.O=1.2 N.C=0.2	N.O=0.2 N.C=1.2	1500	○	○	○	
Especially for Telecomm. Industry Type															
Model Number	Contact Form	OUTPUT Characteristics					INPUT Characteristics					Safety standards approval			Remark
		Load Voltage AC/DC max V _B (V)	Load Current max I _L (mA)	ON Resistance Typ AC/DC Ron(ohm)	T _{ON} (mS)	T _{OFF} (mS)	Output Off-State Leakage max I _{loff} (uA)	Forward Voltage max VF(V)	Operation Input Current Typ IF _{ON} (mA)	Recovery Input Current min IF _{OFF} (mA)	Isolation Voltage min Viso(Vrms)	UL	TUV	FIMKO	
KAQY210B / AB		350	130	28	0.5	0.5	2	1.5	1.00	0.05	3750	○	○	○	
KAQY210SB			130	28	1.0	1.5	1.0	1.5	1.00	0.05	1500	○			
Limit Current Function Type															
Model Number	Contact Form	OUTPUT Characteristics					INPUT Characteristics					Safety standards approval			Remark
		Load Voltage AC/DC max V _B (V)	Load Current max I _L (mA)	ON Resistance Typ AC/DC Ron(ohm)	T _{ON} (mS)	T _{OFF} (mS)	Output Off-State Leakage max I _{loff} (uA)	Forward Voltage max VF(V)	Operation Input Current Typ IF _{ON} (mA)	Recovery Input Current min IF _{OFF} (mA)	Isolation Voltage min Viso(Vrms)	UL	TUV	FIMKO	
KAQY210L		350	130	20	1.0	1.5	1.0	1.5	1.5	0.2	3750				
KAQY214L		400	130	20	1.0	1.5	1.0	1.5	1.5	0.2	3750				
KAQV210L		350	130	20	1.0	1.5	1.0	1.5	1.5	0.2	3750				
KAQV214L		400	130	20	1.0	1.5	1.0	1.5	1.5	0.2	3750				

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D Type														
Type Number	contact FORM	Contact Resistance (mΩ Max)	Insulation Resistance (ohm min)	Power Consumption (VA max)	Maximum Switching Voltage	Maximum Switching Current	Minimum Breakdown Voltage	Nominal Voltage	Coil Resistance +/-10%	Must Operate (VDC)	Must Release (VDC)	Circuit Schematic Top View	Safety standards approval (UL)	
													UL	TUV
D1AXX0000	1A SPST-NO	100	10 ¹¹	10	200 VDC	0.5 A	500 VDC	5	500	3.75	1.0		○	
								12	1000	9	1.2			
								24	2150	18	2.4			
D1BXX0000	1B SPST-NC	100	10 ¹¹	10	200 VDC	0.5 A	500 VDC	5	500	3.75	1.0		○	
								12	1000	9	1.2			
								24	2150	18	2.4			
D1CXX0000	1C SPDT-CO	150	10 ⁹	3	100 VDC	0.25 A	500 VDC	5	200	3.75	1.0		○	
								12	500	9	1.2			
								24	2150	18	2.4			
D2AXX0000	2A DPST-NO	100	10 ¹¹	10	200 VDC	0.5 A	500 VDC	5	140	3.75	1.0		○	
								12	500	9	1.2			
								24	2150	18	2.4			
D1AXX1000	1A SPST-NO	100	10 ¹¹	10	200 VDC	0.5 A	500 VDC	5	500	3.75	1.0		○	
								12	1000	9	1.2			
								24	2150	18	2.4			
D1BXX1000	1B SPST-NC	100	10 ¹¹	10	200 VDC	0.5 A	500 VDC	5	500	3.75	1.0		○	
								12	1000	9	1.2			
								24	2150	18	2.4			
D1CXX1000	1C SPDT-CO	150	10 ⁹	3	100 VDC	0.25 A	500 VDC	5	200	3.75	1.0		○	
								12	500	9	1.2			
								24	2150	18	2.4			
D2AXX1000	2A DPST-NO	100	10 ¹¹	10	200 VDC	0.5 A	500 VDC	5	140	3.75	1.0		○	
								12	500	9	1.2			
								24	2150	18	2.4			
DH Type														
Type Number	contact FORM	Contact Resistance (mΩ Max)	Insulation Resistance (ohm min)	Power Consumption (VA max)	Maximum Switching Voltage	Maximum Switching Current	Minimum Breakdown Voltage	Nominal Voltage	Coil Resistance +/-10%	Must Operate (VDC)	Must Release (VDC)	Circuit Schematic Top View	Safety standards approval (UL)	
													UL	TUV
DH1AXX0000	1A SPST-NO	100	10 ¹¹	10	200 VDC	0.5 A	4000 VAC	5	500	3.75	1.0		○	
								12	1000	9	1.2			
								24	2150	18	2.4			
S Type														
Type Number	contact FORM	Contact Resistance (mΩ Max)	Insulation Resistance (ohm min)	Power Consumption (VA max)	Maximum Switching Voltage	Maximum Switching Current	Minimum Breakdown Voltage	Nominal Voltage	Coil Resistance +/-10%	Must Operate (VDC)	Must Release (VDC)	Circuit Schematic Top View	Safety standards approval (UL)	
													UL	TUV
S1AXX0000	1A SPST-NO	100	10 ¹¹	10	200 VDC	0.5 A	1000 VDC	5	500	3.75	1.0		○	
								12	1000	9	1.2			
								24	2000	18	2.4			
S1AXX0099	1A SPST-NO	100	10 ¹¹	10	200 VDC	0.5 A	1000 VDC	5	1000	3.75	1.0		○	
								12	3000	9	1.2			
S1AXX0098	1A SPST-NO	100	10 ¹¹	10	200 VDC	0.5 A	1000 VDC	12	2000	9	1.2		○	

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SS Type													
Type Number	contact FORM	Contact Resistance (mΩ Max)	Insulation Resistance (ohm min)	Power (VA max)	Maximum Switching Voltage	Maximum Switching Current	Minimum Breakdown Voltage	Nominal Voltage	Coil Resistance +/-10%	Must Operate (VDC)	Must Release (VDC)	Circuit Schematic Top View	Safety standards approval (UL)
SS1AXX0000	1A SPST-NO	100	10 ¹¹	10	200 VDC	0.5 A	2500 VDC	5	500	3.75	1.0		○
								12	1000	9	1.2		
								24	2000	18	2.4		
SS1AXX0099	1A SPST-NO	100	10 ¹¹	10	200 VDC	0.5 A	2500 VDC	5	1000	3.75	1.0		
								12	3000	9	1.2		
SS1A120098	1A SPST-NO	100	10 ¹¹	10	200 VDC	0.5 A	2500 VDC	12	2000	9	1.2		
SS1CXX0000	1A SPST-NO	100	10 ⁹	3	100 VDC	0.25A	1000 VDC	5	200	3.75	1.0		
								12	500	9	1.2		
								24	2000	18	2.4		

G Type													
Type Number	contact FORM	Contact Resistance (mΩ Max)	Insulation Resistance (ohm min)	Power (VA max)	Maximum Switching Voltage	Maximum Switching Current	Minimum Breakdown Voltage	Nominal Voltage	Coil Resistance +/-10%	Must Operate (VDC)	Must Release (VDC)	Circuit Schematic Top View	Safety standards approval (UL)
G1AXX0000	1A SPST-NO	100	10 ¹¹	10	200 VDC	0.5 A	1500 VDC	3	63	2.1	0.3		○
								5	500	3.5	0.5		
								6	500	4.2	0.6		
								8	700	5.6	0.8		
								9	700	6.3	0.9		
								12	1050	8.4	1.2		
G1AXX1000	1A SPST-NO	100	10 ¹¹	10	200 VDC	0.5 A	1500 VDC	3	63	2.1	0.3		
								5	500	3.5	0.5		
								6	500	4.2	0.6		
								8	700	5.6	0.8		
								9	700	6.3	0.9		
								12	1050	8.4	1.2		
G1AXX2000	1A SPST-NO	100	10 ¹¹	10	200 VDC	0.5 A	1500 VDC	3	63	2.1	0.3		
								5	500	3.5	0.5		
								6	500	4.2	0.6		
								8	700	5.6	0.8		
								9	700	6.3	0.9		
								12	1050	8.4	1.2		
G2AXX00000	2A DPST-NO	100	10 ¹¹	10	200 VDC	0.5 A	1500 VDC	3	63	2.1	0.3		○
								5	500	3.5	0.5		
								6	500	4.2	0.6		
								8	700	5.6	0.8		
								9	700	6.3	0.9		
								12	1050	8.4	1.2		
G2AXX1000	2A DPST-NO	100	10 ¹¹	10	200 VDC	0.5 A	1500 VDC	3	63	2.1	0.3		
								5	500	3.5	0.5		
								6	500	4.2	0.6		
								8	700	5.6	0.8		
								9	700	6.3	0.9		
								12	1050	8.4	1.2		

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VH Type													
Type Number	contact FORM	Contact Resistance (mΩ Max)	Insulation Resistance (ohm min)	Power (VA max)	Maximum Switching Voltage	Maximum Switching Current	Minimum Breakdown Voltage	Nominal Voltage	Coil Resistance +/-10%	Must Operate (VDC)	Must Release (VDC)	Circuit Schematic Top View	Safety standards approval (UL)
VH1AXX1000	1A SPST-NO	100	10 ¹¹	10	200 VDC	0.5 A	1500 VDC	5	200	3.75	0.8		
								12	1000	9	1.2		
								24	2150	18	2.4		
VH2AXX10000	2A DPST-NO	100	10 ¹¹	10	200 VDC	0.5 A	1500 VDC	5	140	3.75	0.8		
								12	500	9	1.2		
								24	2150	18	2.4		

V Type													
Type Number	contact FORM	Contact Resistance (mΩ Max)	Insulation Resistance (ohm min)	Power (VA max)	Maximum Switching Voltage	Maximum Switching Current	Minimum Breakdown Voltage	Nominal Voltage	Coil Resistance +/-10%	Must Operate (VDC)	Must Release (VDC)	Circuit Schematic Top View	Safety standards approval (UL)
V1CXX1000	1C SPDT-NO	150	10 ⁹	3	100 VDC	0.25 A	1500 VDC	5	200	3.75	0.8		
								12	500	9	1.2		
								24	2150	18	2.0		
V2CXX1000	2C DPDT-CO	150	10 ⁹	3	100 VDC	0.25 A	1500 VDC	5	140	3.75	0.5		
								12	500	9	1.0		
								24	2150	18	2.0		

C Type													
Type Number	contact FORM	Contact Resistance (mΩ Max)	Insulation Resistance (ohm min)	Power (VA max)	Maximum Switching Voltage	Maximum Switching Current	Minimum Breakdown Voltage	Nominal Voltage	Coil Resistance +/-10%	Must Operate (VDC)	Must Release (VDC)	Circuit Schematic Top View	Safety standards approval (UL)
C2CXX0001	2C DPDT-CO	150	10 ⁹	3	100 VDC	0.25 A	4000 VDC	5	200	3.75	0.75		
								12	500	9	1.8		
								24	2000	18	3.6		

F Type													
Type Number	contact FORM	Contact Resistance (mΩ Max)	Insulation Resistance (ohm min)	Power (VA max)	Maximum Switching Voltage	Maximum Switching Current	Minimum Breakdown Voltage	Nominal Current (mA)	Coil Resistance +/-10%	Must Operate (VDC)	Must Release (VDC)	Circuit Schematic Top View	Safety standards approval (UL)
F1A010M01	1A SPST-NO	150	10 ¹⁰	10	100 VDC	0.5 A	1000 VDC	20	10	15mA	5mA		
F1A010M02													
F1A011M01													
F1A011M02													
F1A012M00													
F1A010M03													

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M Type													
Type Number	contact FORM	Contact Resistance (mΩ Max)	Insulation Resistance (ohm min)	Power (VA max)	Maximum Switching Voltage	Maximum Switching Current	Minimum Breakdown Voltage	Nominal Voltage	Coil Resistance +/-10%	Must Operate (VDC)	Must Release (VDC)	Circuit Schematic Top View	Safety standards approval (UL)
M1AXX0M00	1A SPST-NO	100	10 ¹¹	10	200 VDC	0.5 A	1000 VDC	5	370	3.8	0.4		○
								12	1500	9	1.2		
M1A050Y00	1A SPST-NO	100	10 ¹¹	10	200 VDC	0.5 A	1000 VDC	5	150	3.75	0.5		○
M1A050Y01	1A SPST-NO	100	10 ¹¹	10	200 VDC	0.5 A	1000 VDC	5	150	3.75	0.5		○
M1CXX0M00	1A SPDT	150	10 ⁹	3	100 VDC	0.25 A	1000 VDC	5	230	3.8	0.4		○
								12	1500	9	1.2		

CG Type													
Type Number	contact FORM	Contact Resistance (mΩ Max)	Insulation Resistance (ohm min)	Power (VA max)	Maximum Switching Voltage	Maximum Switching Current	Minimum Breakdown Voltage	Nominal Voltage	Coil Resistance +/-10%	Must Operate (VDC)	Must Release (VDC)	Circuit Schematic Top View	Safety standards approval (UL)
CG1A	1A SPST-NO	150	10 ⁹	10	100	0.5 A	3000 VDC	3	63	2.1	0.3		○
								5	500	3.5	0.3		○
								6	250	4.2	0.3		○
								9	700	6.3	0.3		○
								12	1050	8.4	1.2		○
								24	2080	16.8	2.4		○

Reed Sensor - P Type													
Type Number	contact FORM	Contact Resistance (mΩ Max)	Insulation Resistance (ohm min)	Power (VA max)	Maximum Switching Voltage	Maximum Switching Current	Minimum Breakdown Voltage	Nominal Voltage	Coil Resistance +/-10%	Must Operate (VDC)	Must Release (VDC)	Circuit Schematic Top View	Safety standards approval (UL)
P3-1A15	1A SPST-NO	150	10 ⁹	1	30 VDC	0.1 A	—	10-15AT	—	15AT	5AT		○
P3-1A16	1A SPST-NO	150	10 ⁹	1	30 VDC	0.1 A	—	10-15AT	—	—	—		○
P3-1A17	1A SPST-NO	150	10 ⁹	1	30 VDC	0.1 A	—	10-15AT	—	—	—		○
P1-1A15 P010	1A SPST-NO	200	10 ⁹	10	200 VDC	0.5 A	—	—	—	—	—		○

Reed Sensor - MK Type													
Type Number	contact FORM	Contact Resistance (mΩ Max)	Insulation Resistance (ohm min)	Power (VA max)	Maximum Switching Voltage	Maximum Switching Current	Minimum Breakdown Voltage	Nominal Voltage	Coil Resistance +/-10%	Must Operate (VDC)	Must Release (VDC)	Circuit Schematic Top View	Safety standards approval (UL)
MK	1A SPST-NO	15	10 ⁹	1	30 VDC	0.1 A	—	—	150	—	—		○

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Triac Type										
Model Numbers	Input	Minimum Trigger Current I _{FT}	Maximum Output Current	Minimum Output Current	Maximum Output Voltage	Minimum Output Voltage	Output Type	Breakdown voltage Input to output	Circuit Schematic Top View	Safety standards approval (UL)
KSD210AC8	4 - 32 VDC	5 mA	10 A	0.05A	250VAC	50VAC	AC	4000VAC		○
KSD215AC8			15 A							
KSD225AC8			25 A							
KSD240AC8			40 A							
KSD425AC8			25 A							
KSD440AC8			40 A							
KSA210AC8	90 - 240 VAC	5 mA	10 A	0.05A	250VAC	50VAC	AC	4000VAC		○
KSA215AC8			15 A							
KSA225AC8			25 A							
KSA240AC8			40 A							
KSA425AC8			25 A							
KSA440AC8			40 A							
KSD203AC3	5 - 12 VDC	5 mA	3 A	0.05A	250VAC	50VAC	AC	4000VAC		○
KSD205AC3			5 A							
KSD210AC3			10 A							
KSD215AC3			15 A							
KSD225AC3			25 A							
KSD240AC3			40 A							
KSD203DC2	4 - 24 VDC	10 mA	3A	0.05A	100VDC	-	DC	4000VAC		○
KSD203AC2	4 - 32 VDC	5 mA	3A	0.05A	250VAC	50VAC	AC	4000VAC		○

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Mouse Sensors

IR Type						
Model Numbers	Forward voltage Typ. (Vf)	Reverse voltage Min. (Vr)	Radiated output power Min. Pu (mw)	Spectrum width of half value Δλ (mw)	Wave length λp(mw)	Internal connection Function
PS202L-1	1.25	5	0.4	50	940	
PS202LP-1	1.25	5	0.4	50	940	

PT Type						
Model Numbers	Supply voltage Min. (Vcc)	Supply voltage Typ. (Icc)	Output current (Ioh,Iol)	Operating temperature (Topr)	Storage temperature (Tstr)	Internal connection Function
PS201L-1	2	0.1uA	-450uA, 2.5mA	-20 ~ +75°C	-20 ~ +80°C	
PS201LP-1	2	0.1uA	-450uA, 2.5mA	-20 ~ +75°C	-20 ~ +80°C	

COSMO	Matsushita / Nais / Aromat	COSMO	CP Clare
KAQV210	AQV210	KAQV210	LCA110
KAQV210A	AQV210A	KAQV210A	
KAQV210S	AQV210S	KAQV210S	
KAQV214	AQV214	KAQV214	PLA110
KAQV214A	AQV214A	KAQV214A	
KAQV214S	AQV214S	KAQV214S	
KAQV414	AQV414	KAQV414	LCB110
KAQV414A	AQV414A	KAQV414A	
KAQV414S	AQV414S	KAQV414S	
KAQW210	AQW210	KAQW210	LAA110
KAQW210A	AQW210A	KAQW210A	
KAQW210S	AQW210S	KAQW210S	
KAQW214	AQW214	KAQW214	PAA110
KAQW214A	AQW214A	KAQW214A	
KAQW214S	AQW214S	KAQW214S	
KAQW414	AQW414	KAQW414	LBB110
KAQW414A	AQW414A	KAQW414A	
KAQW414S	AQW414S	KAQW414S	
KAQW614	AQW614	KAQW614	LBA110
KAQW614A	AQW614A	KAQW614A	
KAQW614S	AQW614S	KAQW614S	
KAQY210	AQY210	KAQY210	
KAQY210A	AQY210A	KAQY210A	
KAQY210S	AQY210S	KAQY210S	
KAQY214	AQY214	KAQY214	
KAQY214A	AQY214A	KAQY214A	
KAQY214S	AQY214S	KAQY214S	
KAQY414S	AQY414S	KAQY414S	
KAQY414S	AQW210TS	KAQY414S	
KAQY210B		KAQY210B	
KAQY210AB		KAQY210AB	
KAQY210SB		KAQY210SB	

COSMO	Siemens / AT&T	COSMO	NEC
KAQV210	LH1056 / LH1540	KAQV210	
KAQV210A		KAQV210A	
KAQV210S		KAQV210S	
KAQV214	LH1516	KAQV214	PS7141-1A
KAQV214A		KAQV214A	
KAQV214S		KAQV214S	
KAQV414	LH1501	KAQV414	
KAQV414A		KAQV414A	
KAQV414S		KAQV414S	
KAQW210	LH1520	KAQW210	PS7522-2A
KAQW210A		KAQW210A	
KAQW210S		KAQW210S	
KAQW214	LH1524	KAQW214	PS7211-2A
KAQW214A		KAQW214A	
KAQW214S		KAQW214S	
KAQW414	LH1521	KAQW414	PS141-2A
KAQW414A		KAQW414A	
KAQW414S		KAQW414S	
KAQW614	LH1502	KAQW614	
KAQW614A		KAQW614A	
KAQW614S		KAQW614S	
KAQY210		KAQY210	
KAQY210A		KAQY210A	
KAQY210S		KAQY210S	
KAQY214		KAQY214	
KAQY214A		KAQY214A	

KAQW614S	
KAQY210	
KAQY210A	
KAQY210S	
KAQY214	
KAQY214A	PS7241-1A
KAQY414S	
KAQY210B	
KAQY210AB	
KAQY210SB	

4-pin DIP Type	4-pin SMD Type	4-pin H Type	6-pin DIP Type
	TOLERANCE : ±0.2mm	TOLERANCE : ±0.2mm	TOLERANCE : ±0.2mm
6-pin SMD Type	6-pin H Type	8-pin DIP Type	8-pin SMD Type
TOLERANCE : ±0.2mm	TOLERANCE : ±0.2mm	TOLERANCE : ±0.2mm	TOLERANCE : ±0.2mm
8-pin H Type	16-pin DIP Type	16-pin SMD Type	16-pin H Type
TOLERANCE : ±0.2mm	TOLERANCE : ±0.2mm	TOLERANCE : ±0.2mm	TOLERANCE : ±0.2mm
4-pin MIN-Flat Type	4-pin SSOP Type		
TOLERANCE : ±0.2mm			

<p>4-pin DIP Type</p> <p>TOLERANCE : ± 0.2mm</p>	<p>4-pin SMD Type</p> <p>TOLERANCE : ± 0.2mm</p>	<p>6-pin DIP Type</p> <p>TOLERANCE : ± 0.2mm</p>
<p>6-pin SMD Type</p> <p>TOLERANCE : ± 0.2mm</p>	<p>8-pin SMD Type</p> <p>TOLERANCE : ± 0.2mm</p>	<p>8-pin SMD Type</p> <p>TOLERANCE : ± 0.2mm</p>
<p>4-pin SOP Type</p> <p>TOLERANCE : ± 0.2mm</p>	<p>6-pin SOP Type</p> <p>TOLERANCE : ± 0.2mm</p>	<p>8-pin SOP Type</p> <p>TOLERANCE : ± 0.2mm</p>

<p>AC2 Type</p>	<p>AC3 Type</p>
<p>DC2 Type</p>	<p>AC8 Type</p>

Mouse Sensors

<p>PS201L-1 Type</p> <p>Pin 1: Output B Pin 2: Ground Pin 3: Vcc Pin 4: Output A</p>	<p>PS202L-1 Type</p> <p>Pin 1: NC Pin 2: Cathode Pin 3: NC Pin 4: Anode</p>
<p>PS201LP-1 Type</p> <p>Pin 1: Ground Pin 2: Vcc Pin 3: Output A Pin 4: Output B</p>	<p>PS202LP-1 Type</p> <p>Pin 1: NC Pin 2: Cathode Pin 3: NC Pin 4: Anode</p>

<p>KW1S10FC TYPE</p>	<p>KW1S20FC TYPE</p>	<p>KW1S40FC TYPE</p>	<p>KW1S50FC TYPE</p>
<p>KW1S53FC TYPE</p>	<p>KW1S54FC TYPE</p>	<p>KW1S55FC TYPE</p>	<p>KW1S56FC TYPE</p>
<p>KW1S57FC TYPE</p>			

Photo Link Connector

<p>A Type</p> <p>Tolerance: ±0.2mm Pin Connection 1.GND 2.Vcc 3.Input</p>	<p>B Type</p> <p>Tolerance: ±0.2mm Pin Connection 1.GND 2.Vcc 3.Input</p>	<p>AD Type</p> <p>Tolerance: ±0.2mm Pin Connection 1.GND 2.Vcc 3.Input</p>	<p>BD Type</p> <p>Tolerance: ±0.2mm Pin Connection 1.GND 2.Vcc 3.Input</p>
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<p>DIP Type</p> <p>TOLERANCE : ± 0.1mm</p>	<p>SS1A Type</p> <p>TOLERANCE : ± 0.1mm</p>	<p>SS1C Type</p> <p>TOLERANCE : ± 0.1mm</p>	<p>DH Type</p> <p>TOLERANCE : ± 0.1mm</p>
<p>C Type</p>	<p>SIP Type</p>	<p>G1A0 Type</p>	<p>G1A1 Type</p>
<p>G1A2 Type</p>	<p>G2A0 Type</p>	<p>G2A1 Type</p>	<p>V1# Type</p>
<p>V2# Type</p>	<p>M Type</p>	<p>MK Type</p> <p>TOLERANCE : ± 0.1mm</p>	<p>CG Type</p> <p>±0.05(x2)</p>
<p>P3-1A15 Type</p> <p>TOLERANCE : ± 0.1mm</p>	<p>P3-1A16 Type</p> <p>TOLERANCE : ± 0.1mm</p>	<p>P3-1A17 Type</p> <p>TOLERANCE : ± 0.1mm</p>	<p>P1-1A15 Type</p> <p>TOLERANCE : ± 0.1mm</p>