

Rotary Cam Switch

KAM Series



Part Number Description

KAM - ① ② 10A Standard Type

① Handle type	General : C, F, E, A	Lever : I, N, B	Handle : H, Y, P
② Diagram	A2 / A3 / V2 / V3 / V33 / HCS1 / HCS2 / C2010 / C2201		

KAM-E - ① ② ③ 10A Europe Type

① Diagram	A2 / A3 / V2 / V3 / V33 / C2010 / C2201		
② Protection Guard & Nameplate	G1 : Standard (Without Protection Guard)	G2 : Protection Guard + Name Plate	
③ Protection Guard & Nameplate Color	K : Black	R : Red	G : Green Y : Yellow (Handle : Red)

General Specification

AC	Rated Voltage	125V	250V	440V	
	Rated Current	15A	10A	3A	
	Breaking Current	Closed Breaking = Rated Current×2.2			
	Rated Voltage	24V	110V	220V	
	Resistance Load	Rated Current	10A	5A	3A
		Breaking Current	Closed Breaking = Rated Current×1.1		
DC	Induction Load	Rated Current	5A	1.2A	0.45A
		Breaking Current	Closed Breaking = Rated Current×1.1		
Maximum Switching Current		20A			
Life Cycle	Mechanical	Min. 500,000 Cycle - Switching Frequency : 20 times / Minute			
	Electical	Min. 200,000 Cycle - Switching Frequency : 20 times / Minute			
General Ratings	Insulation Resistance	100MΩ 500VDC.			
	Contact Resistance	50mΩ			
	Dielectric Strength	2,500VAC 1 minute 50 ~ 60Hz			
	Vibration Resistance	10 ~ 55Hz, Double Amplitude 1.5mm			
	Shock Resistance	30G 300m/s ²			
	Operating Forces	450G			
	Ambient Temperature	-25° ~ 70°C (with no icing)			
	Ambient Humidity	45 ~ 85%			
Material Ratings	Body	PC			
	Cam	POM			
	Contact	Ag Alloy(24K Au Plate)			
	Terminal	Brass + Ni Plating			
	Bolt	Fe + Ni Plating			
	Spring	Stainless Steel			
Handel	Nylon #66 Resin				

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Basic Circuit Drawing

KAM-CV2	KAM-CV3	KAM-CV33	
KAM-CA2	KAM-CA3	KAM-CA33	KAM-CA3
KAM-HCS1	KAM-HCS2(당김형)	KAM-IC2010	

Example of circuit diagram

1	2	3	4

No# of step





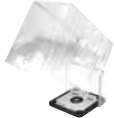

Example no#	Contact block connection			
	1	2	3	4
STEP 1	1 & 2	1&2	1&2	7&8
STEP1 -> STEP 2	-	1&2	1&2, 3&4	7&8
STEP 2	3 & 4	3&4, 1&2	3&4	7&8, 5&6, 3&4, 1&2

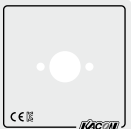
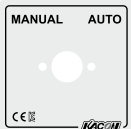
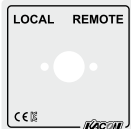




- Step 1 -> Connect contact block 1 & 2
Step 2 -> Connect contact block 3 & 4 and during change from step 1 contact block 1 & 2 is disconnected.
- Step 1 -> Connect contact block 1 & 2
Step 2-> Connect contact block 1&2 and 3 & 4 and during change from step 1 contact block 1 & 2 is connected.
- Step 1 -> Connect contact block 1 & 2
Step 2-> Connect contact block 3 & 4 and during change from step 1 contact block 1 & 2 is disconnected in the middle position and contact block 3&4 is connected until position of step 2.
- Step 1 -> Connect contact block 7 & 8
Step 2-> Connect contact block 1&2, 3&4, 5&6, 7&8 and during change from step 1 contact block 7&8 is connected.



Accessory

Knob				
KAM-H	KAM-Y	KAM-P	KAM-I	KAM-N
				
KAM-B	KAM-C	KAM-F	KAM-X	KAM-E
				

Safety Guard		Safety Cover		Safety Guard & Cover	
KAM-G1 □	KAM-G2 □	KAM-C1 □	KAM-C2 □	KAM-C3-1	KAM-C3-2
					
≒ Color : R, G, Y, B ≒ KAM-G1, C1, C2 : KAM-X only		Suitable with KAM-G1	Suitable with KAM-G2	HCS1	HCS2

Legend Plates						
KAM-T1(Standard)	KAM-T2	KAM-T3	KAM-T4	KAM-H1(Standard)	KAM-H2	KAM-H3
						

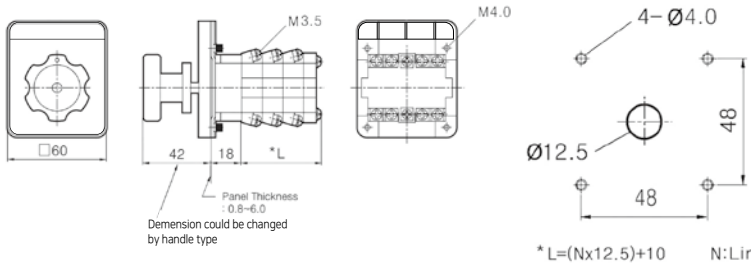
Rotary Cam Switch

KAM Series

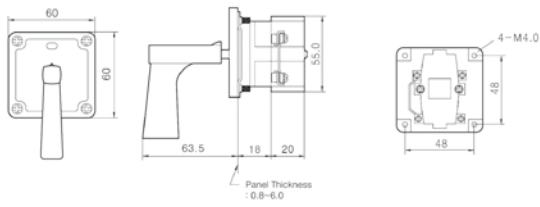
Dimension

Unit : mm

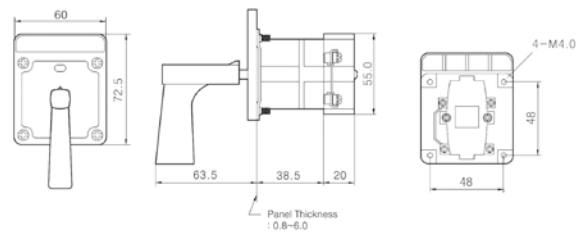
KAM 10A



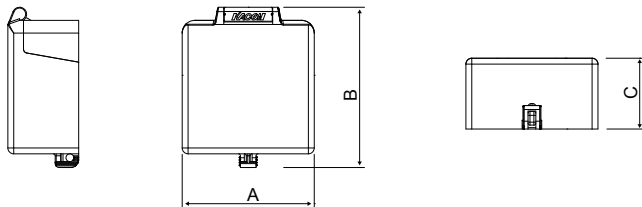
KAM-HCS1



KAM-HCS2



KAM-C1, C2, C3

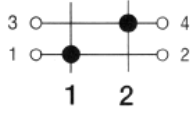


	A	B	C
KAM-C1	67.5	82.0	36.5
KAM-C2	67.5	95.0	36.5
KAM-C3	63.5	128.0	85.0

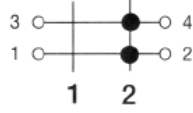
Custom Order Diagram

2-Position, 1-Contact Block (90°)

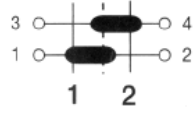
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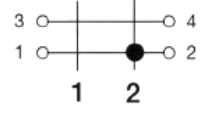
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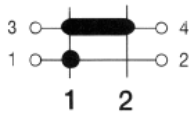
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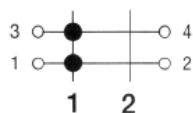
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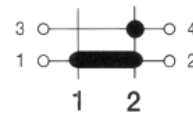
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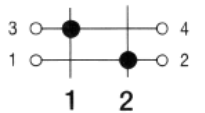
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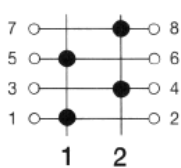


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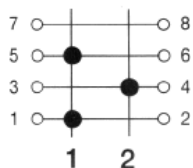


2-Position, 2-Contact Block (90°)

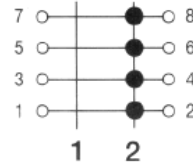
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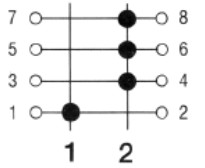
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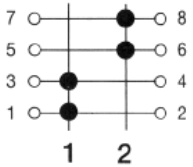
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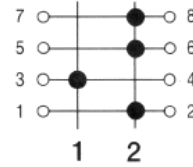
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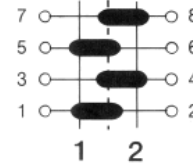
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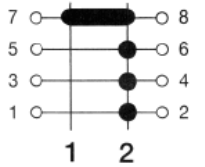
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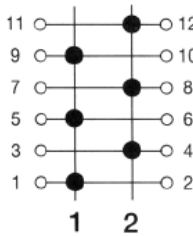


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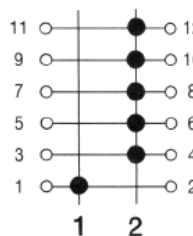


2-Position, 3-Contact Block (90°)

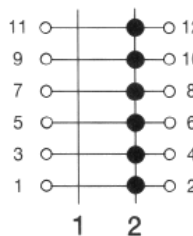
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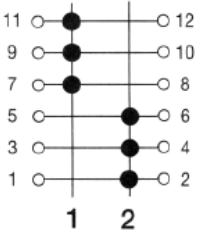
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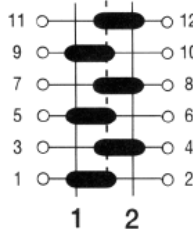
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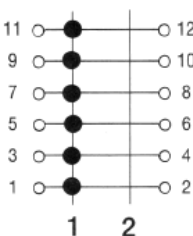
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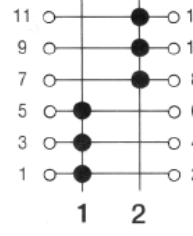
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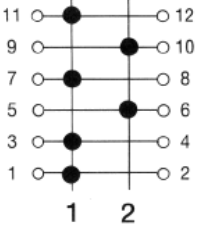
□ 2306



□ 2307



□ 2308



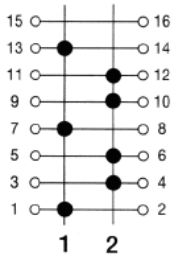
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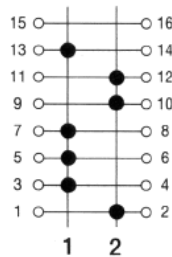
Custom Order Diagram

2-Position, 4-Contact Block (90°)

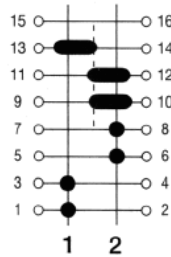
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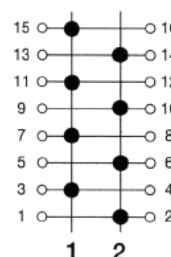
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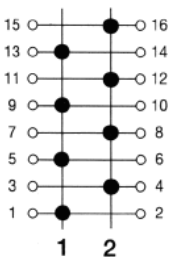
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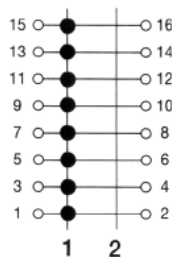
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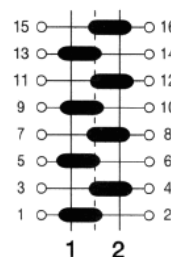
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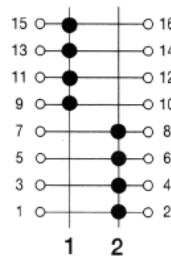
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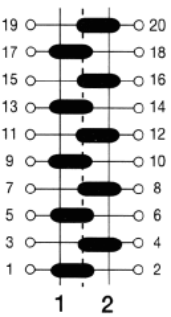


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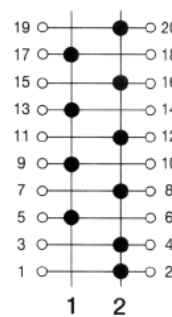


2-Position, 5-Contact Block (90°)

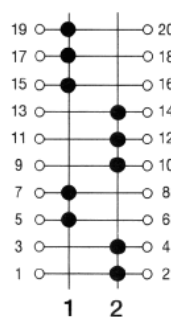
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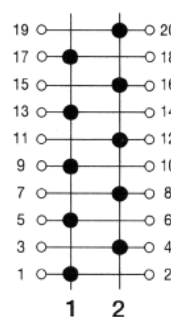
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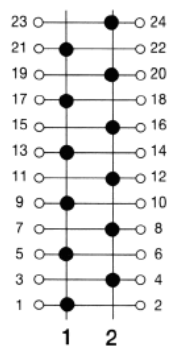


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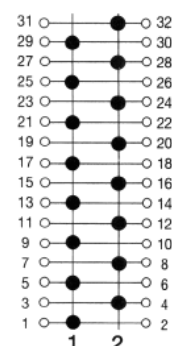
2-Position, 6-Contact Block (90°)

□ 2601



2-Position, 8-Contact Block (90°)

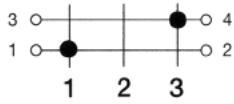
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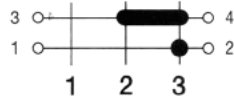
Custom Order Diagram

3-Position, 1-Contact Block (45°)

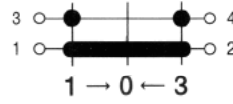
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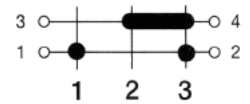
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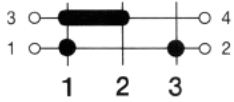
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□ 3106



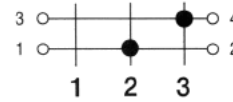
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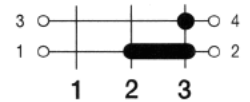
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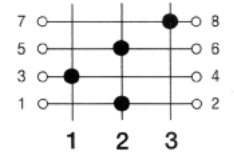


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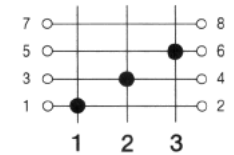


3-Position, 2-Contact Block (45°)

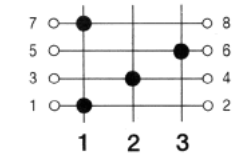
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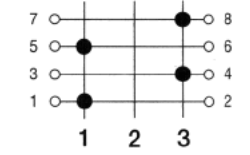
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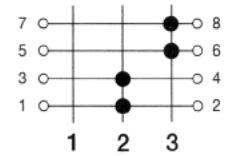
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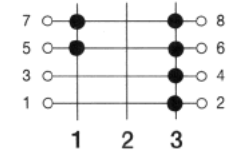
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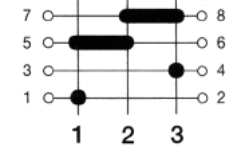
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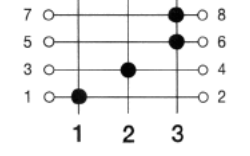
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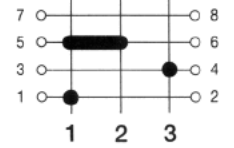
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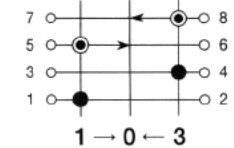
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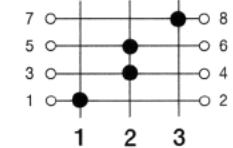
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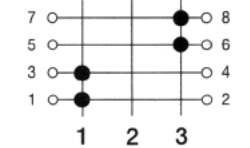
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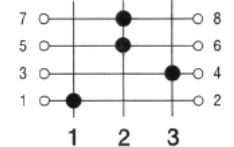
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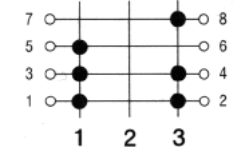
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□ 3217



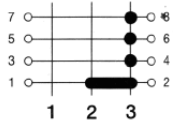
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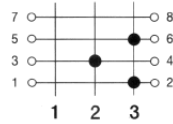
Custom Order Diagram

3-Position, 2-Contact Block (45°)

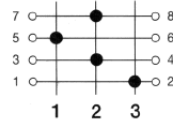
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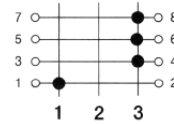
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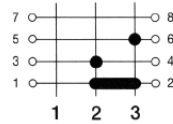
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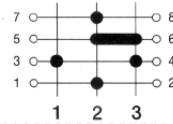
□ 3221



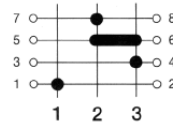
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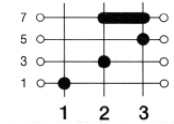
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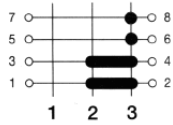
□ 3224



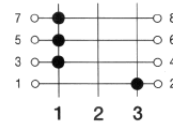
□ 3225



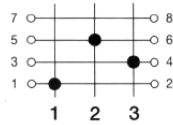
□ 3226



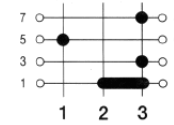
□ 3227



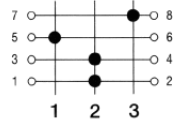
□ 3228



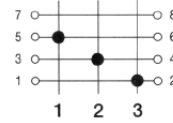
□ 3229



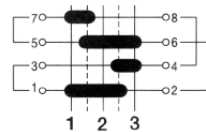
□ 3230



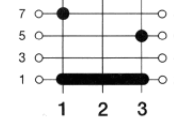
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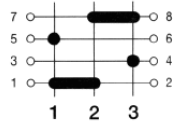
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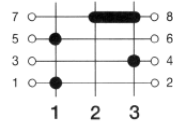
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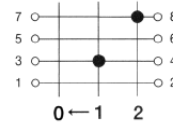
□ 3234



□ 3235

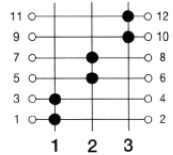


□ 3236

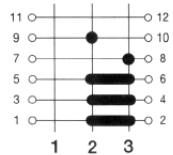


3-Position, 3-Contact Block (45°)

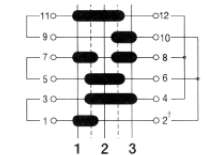
□ 3301



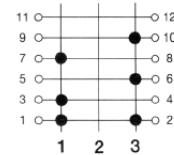
□ 3302



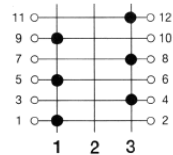
□ 3303



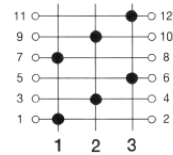
□ 3304



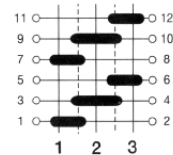
□ 3305



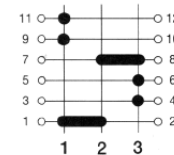
□ 3306



□ 3307



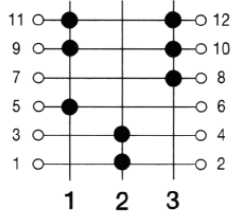
□ 3308



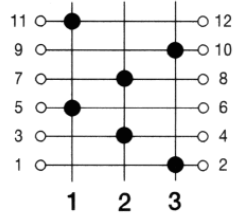
Custom Order Diagram

3-Position, 3-Contact Block (45°)

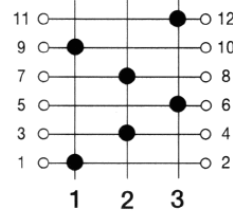
□ 3309



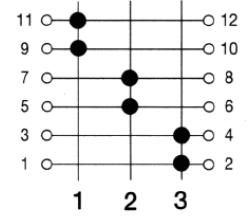
□ 3310



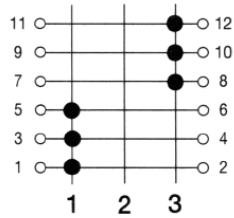
□ 3311



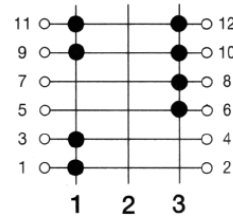
□ 3312



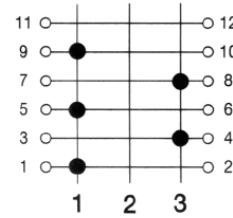
□ 3313



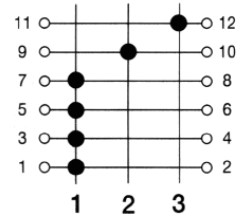
□ 3314



□ 3315

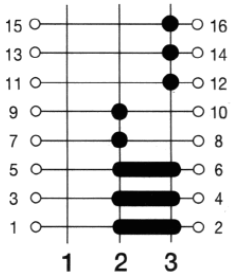


□ 3316

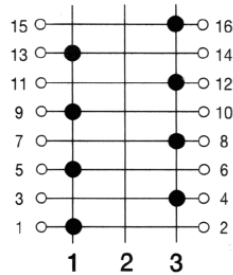


3-Position, 4-Contact Block (45°)

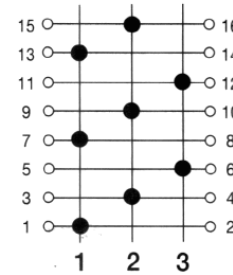
□ 3401



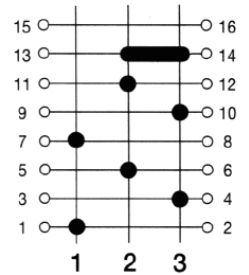
□ 3402



□ 3403



□ 3404



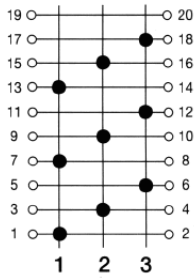
Rotary Cam Switch

KAM Series

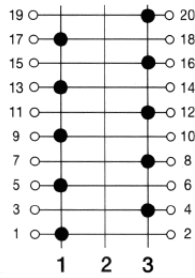
Custom Order Diagram

3-Position, 5-Contact Block (45°)

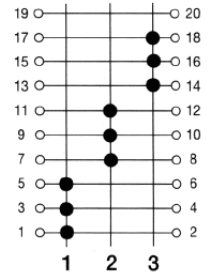
□ 3501



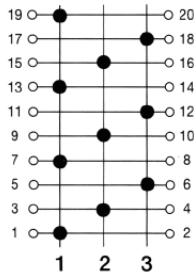
□ 3502



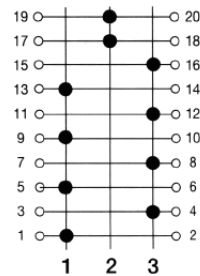
□ 3503



□ 3504

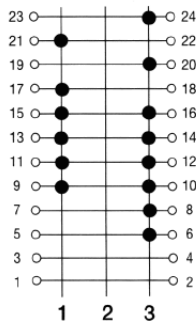


□ 3505

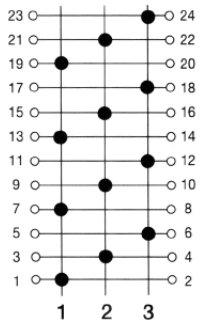


3-Position, 6-Contact Block (45°)

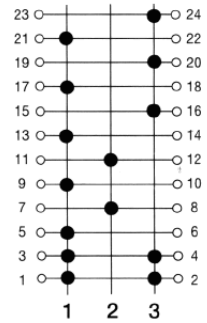
□ 3601



□ 3602



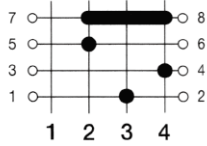
□ 3603



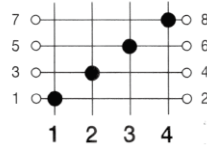
Custom Order Diagram

4-Position, 2-Contact Block (45°)

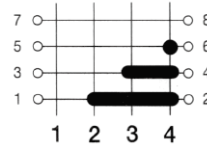
□ 4201



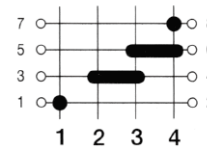
□ 4202



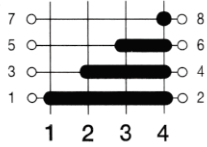
□ 4203



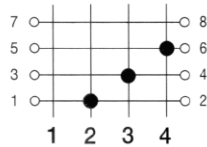
□ 4204



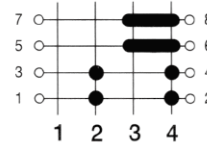
□ 4205



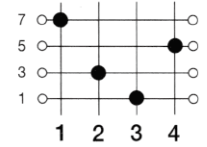
□ 4206



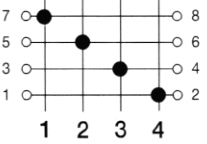
□ 4207



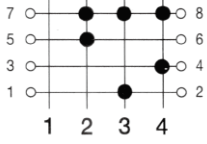
□ 4208



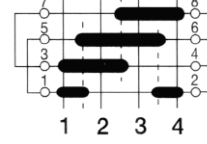
□ 4209



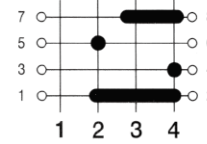
□ 4212



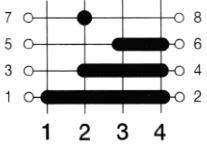
□ 4214



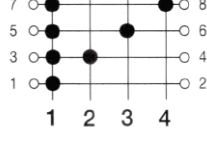
□ 4215



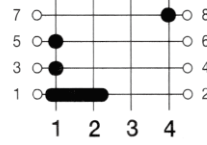
□ 4216



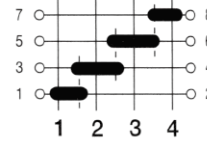
□ 4217



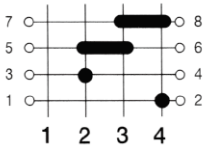
□ 4220



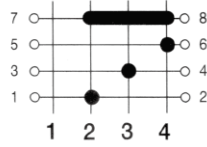
□ 4229



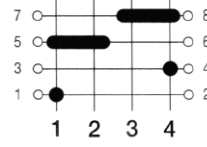
□ 4230



□ 4231

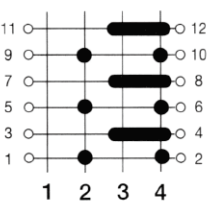


□ 4241

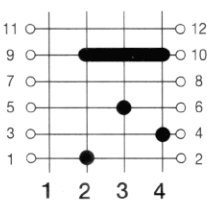


4-Position, 3-Contact Block (45°)

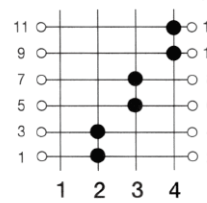
□ 4303



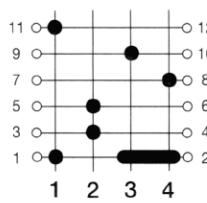
□ 4304



□ 4305





□ 4306



Rotary Cam Switch

KAM Series

Product Selection

Section type	Rated Current	Requirements	Part Number
Basic Circuit - KAM Series (Standard Type) 	10 A	Voltmeter,	KAM - CV2
		Amperemeter,	KAM - CA2
		Voltmeter,	KAM - CV3
		Amperemeter,	KAM - CA3
		Automatic,	KAM - HCS1
		Attractor.	KAM - HCS2
- KAM Series (Europe Type) 	10 A	Voltmeter,	KAM - EV2
		Amperemeter,	KAM - EA2
		Voltmeter,	KAM - EV3
		Amperemeter,	KAM - EA3
		Automatic,	KAM - ECS1
		Attractor.	KAM - ECS2