

## New! KG SERIES - ILLUMINATED & NON-ILLUMINATED ROCKER SWITCHES



B

### FEATURES

- Designed for safety of operation under extreme conditions.
- Ideal for off-highway vehicle applications.
- Protected actuator sealed to IP 65.
- Panel mounting SPDT & DPDT models.
- Highly visible actuator symbols, laser or hot die stamped with optional backlighting.

### ELECTRICAL & MECHANICAL SPECIFICATIONS

<b>Contact ratings (resistive loads):</b>	ON-OFF and ON-ON functions: 15A 12 VDC, 10A 24VDC, 15A 250VAC max. 10mA 14VDC min. ON-ON-ON function: 10A 12VDC, 5A 24VDC, 10A 250VAC max. Other functions: 10A 12VDC, 8A 24VDC, 10A 250VAC max.
<b>Initial contact resistance:</b>	10 milliohms max. at 1A 2VDC
<b>Insulation resistance:</b>	1000 megohms min. at 500 VDC
<b>Dielectric strength:</b>	2000 V rms min. - between terminals
<b>Electrical life:</b>	10,000 cycles min. at full load
<b>Mechanical life:</b>	2 position models; 100,000 cycles min. 3 position models; 30,000 cycles min.

### ENVIRONMENTAL SPECIFICATIONS

<b>Operating temperature range:</b>	2 position models; -40°C to +85°C    3 position models; -10°C to +65°C
<b>Degree of protection:</b>	IP65
<b>Shock resistance:</b>	100g per IEC 512-4, test 6c
<b>Vibration resistance:</b>	10-500 Hz - 10g per IEC 512-4, test 6d
<b>Salt Spray resistance:</b>	96 hours per IEC 512-6, test 11f
<b>Moisture resistance:</b>	56 days per IEC 68-2-3

### MATERIALS

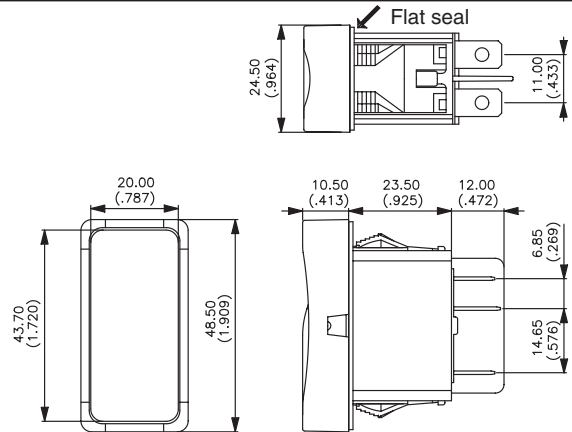
<b>Contacts:</b>	Silver
<b>Terminals:</b>	Silver plated brass
<b>Case and Bezel:</b>	Thermoplastic UL94V-0
<b>Actuator:</b>	Thermoplastic UL94V-0
<b>Lens:</b>	Polycarbonate

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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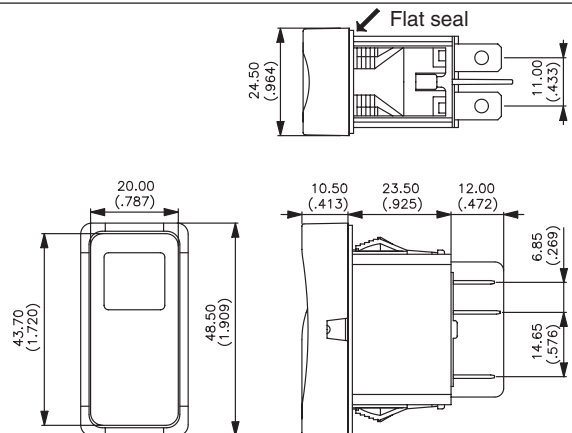
## Non-illuminated - black rocker - solder lug terminals

SINGLE POLE	DOUBLE POLE	CIRCUIT	
KG312A2XXA21XX	KG412A2XXA21XX	ON	OFF
-	KG442A2XXA21XX	ON ON	ON
KG352A2XXA21XX	KG452A2XXA21XX	MOM	ON
KG362A2XXA21XX	KG462A2XXA21XX	ON	ON
KG372A2XXA21XX	KG472A2XXA21XX	MOM OFF	MOM
KG382A2XXA21XX	KG482A2XXA21XX	ON OFF	MOM
KG392A2XXA21XX	KG492A2XXA21XX	ON OFF	ON
Terminals connected:		2-3	1-2
		5-6	4-5

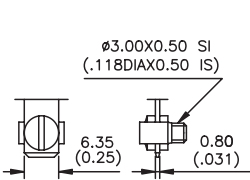


## Illuminated - black rocker - red lens - 12V red L.E.D.

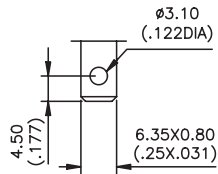
SINGLE POLE	DOUBLE POLE	CIRCUIT	
KG312A2DXA246X	KG412A2DXA246X	ON	OFF
-	KG442A2DXA246X	ON ON	ON
KG352A2DXA246X	KG452A2DXA246X	MOM	ON
KG362A2DXA246X	KG462A2DXA246X	ON	ON
KG372A2DXA246X	KG472A2DXA246X	MOM OFF	MOM
KG382A2DXA246X	KG482A2DXA246X	ON OFF	MOM
KG392A2DXA246X	KG492A2DXA246X	ON OFF	ON
Terminals connected:		2-3	1-2
		5-6	4-5



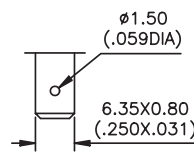
## TERMINALS



0 Screw



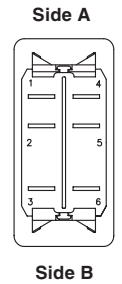
2 Solder lug/  
quick-connect



3 Quick-connect

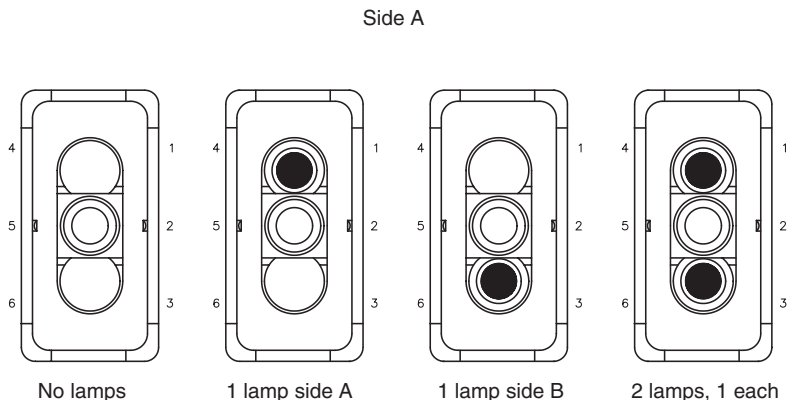
Terminals 1 through 6 are marked on switch case

Side A: terminals 1 and 4  
Side B: terminals 3 and 6



## LAMPS AND LAMP PLACEMENT

- X No lamp
- A 6V LED red
- B 6V LED green
- C 6V LED yellow
- D 12V LED red
- E 12V LED green
- F 12V LED yellow
- J 24V LED red
- K 24V LED green
- L 24V LED yellow
- M Neon 125V
- N Neon 250V
- O Filament 6V
- P Filament 12V
- R Filament 24V



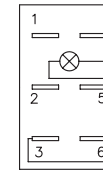
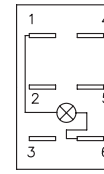
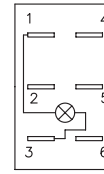
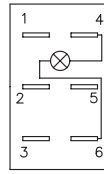
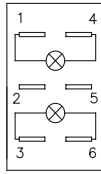
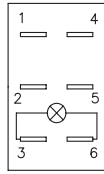
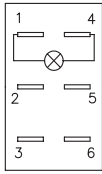
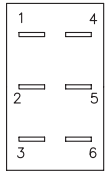
Note - Lamp location for function 1 models (ON - OFF) is always on side B

Side B

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B

## LAMP WIRING

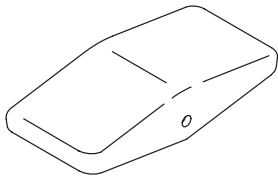


A (standard)

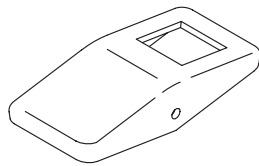
B

C

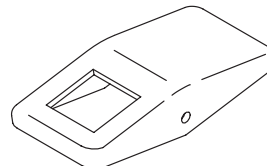
## ROCKER SHAPE AND COLORS



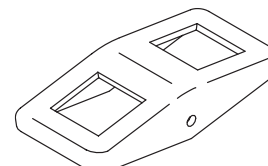
1 Full rocker



4 Opening on side A



6 Opening on side B



8 Opening on sides A and B

- 1 Blue
- 2 Black
- 3 Green
- 4 Gray
- 5 Yellow
- 6 Red
- 7 Ivory
- 9 Orange

Rocker colors

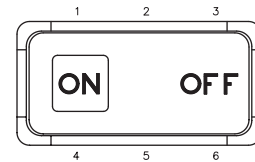
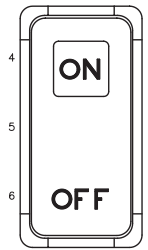
## ROCKER MARKING METHOD AND ORIENTATION

### MARKING METHODS

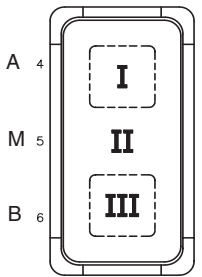
- L Laser
- C Hot stamping

V Vertical orientation

H Horizontal orientation



## STANDARD MARKING SYMBOLS



Code XX indicates no marking

Black rockers have white marking. Colored rockers have black marking. Other marking colors - consult factory,

CODE	SYMBOL	DESCRIPTION	CODE	SYMBOL	DESCRIPTION	CODE	SYMBOL	DESCRIPTION
01	ON	-	10	▽	Down motion	19		Door opening
02	OFF	-	11		Hot	20		Windshield defroster
03	○	-	12		Cold	21		Windshield wiper
04		-	13		Hazard lights	22		Windshield washer
05		-	14		Travel lights	23		Ventilator
06	STOP	-	15		Driver lights	24		Side mirror defroster
07	A	Stop	16		Revolving light	25		Restarting pump
08	M	Motion	17		Rear ventilator	26		Front fog lights
09	△	Up motion	18		Heating	27		Rear fog lights

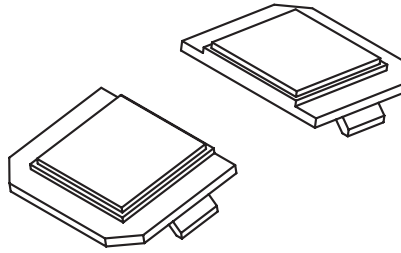
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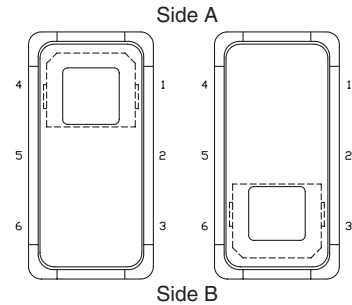
## LENS COLOR AND PLACEMENT

- X No lens
- 1 Blue
- 3 Green
- 6 Red
- 9 Orange
- B White
- T Translucent

Lens colors



Lenses



Side B

Fill in boxes with selections shown below for complete model number. Allowable options are shown below each respective box.  
**Note: All 22 boxes below must be filled in with one exception - if no marking is required, do not use the last 8 boxes.**

## 'BUILD YOUR OWN SWITCH' ORDER FORMAT

Series	Number of poles	Electrical functions	Terminals	Contact material	Bezel	Lamp(s) & placement		See Lamps & lamp placement on prior page.
						Side A	Side B	
<b>K</b> <b>G</b>				<b>A</b>	<b>2</b>			
	3 Single pole 4 Double pole	1 ON - OFF 4* ON ON ON 5 MOM - ON 6 ON - ON 7 MOM OFF MOM 8 ON OFF MOM 9 ON OFF ON * -Single pole in double pole case. Specify for double pole only - see schematic below.	0 Screw & clamp 2 Solder lug/quick-connect 3 Normalized quick-connect	Silver	Color black	X X A A B B C C D D E E F F J J K K L L M M N N O O P P R R	X X A A B B C C D D E E F F J J K K L L M M N N O O P P R R	No lamp 6V LED red 6V LED green 6V LED yellow 12V LED red 12V LED green 12V LED yellow 24V LED red 24V LED green 24V LED yellow Neon 125V Neon 250V Filament 6V Filament 12V Filament 24V

Lamp wiring	Rocker color	Rocker shape	Lens color & placement		Marking method & orientation	Marking location		
			side A	side B		side A	Middle	side B
A (Standard) B C See Lamp Wiring on prior page.	1 Blue 2 Black 3 Green 4 Gray 5 Yellow 6 Red 7 Ivory 9 Orange	1 Full 4 Open side A 6 Open side B 8 Open sides A & B See Rocker Shape and Colors on prior page.	X X 1 1 3 3 6 6 9 9 B B T T	X X 1 1 3 3 6 6 9 9 B B T T	L V L H C V C H	Select from Standard Marking Symbols table on prior page.		

If marking is required - fill in 8 boxes below. if no marking is required, do not use these boxes.

Example of completely specified model number:  
**KG310A2ACA28TTLH13XX02**

## PANEL CUT-OUT, SWITCH CROSS-SECTION & FUNCTION 4 SCHEMATIC

Panel thickness:  
 0.8 - 4.6mm  
 (.031" - .181")  
 Recommended thickness:  
 2 - 3.5mm  
 (.078" - .138")

