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

Contact ratings (resistive loads):	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.
Initial contact resistance:	10 milliohms max. at 1A 2VDC
Insulation resistance:	1000 megohms min. at 500 VDC
Dielectric strength:	2000 V rms min. - between terminals
Electrical life:	10,000 cycles min. at full load
Mechanical life:	2 poistion models; 100,000 cycles min. 3 position models; 30,000 cycles min.

ENVIRONMENTAL SPECIFICATIONS

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

MATERIALS

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

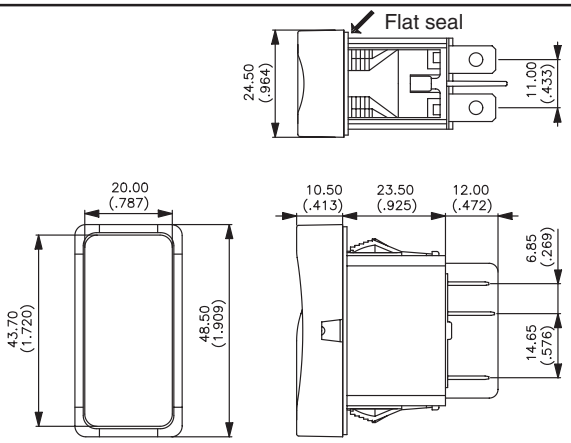
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

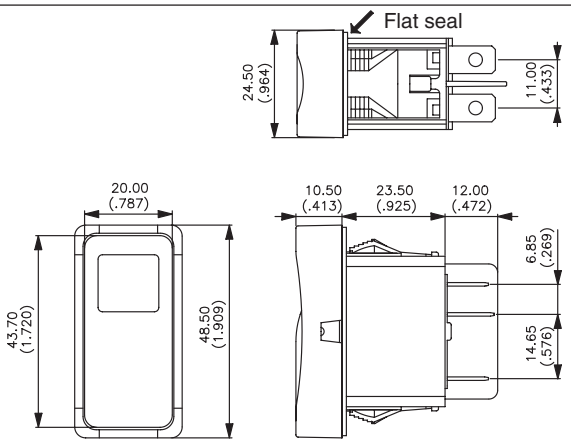
Non-illuminated - black rocker - solder lug terminals

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

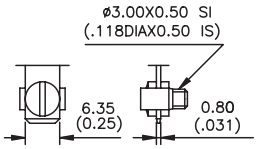


Illuminated - black rocker - red lens - 12V red L.E.D.

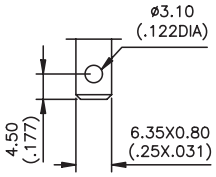
SINGLE POLE	DOUBLE POLE	CIRCUIT		
KG312A2DXA246X	KG412A2DXA246X	ON	-	OFF
-	KG442A2DXA246X	ON	ON	ON
KG352A2DXA246X	KG452A2DXA246X	MOM	-	ON
KG362A2DXA246X	KG462A2DXA246X	ON	-	ON
KG372A2DXA246X	KG472A2DXA246X	MOM	OFF	MOM
KG382A2DXA246X	KG482A2DXA246X	ON	OFF	MOM
KG392A2DXA246X	KG492A2DXA246X	ON	OFF	ON
Terminals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



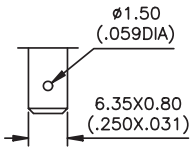
TERMINALS



0 Screw



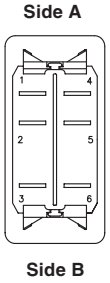
2 Solder lug/ quick-connect



3 Quick-connect

Terminals 1 through 6 are marked on switch case

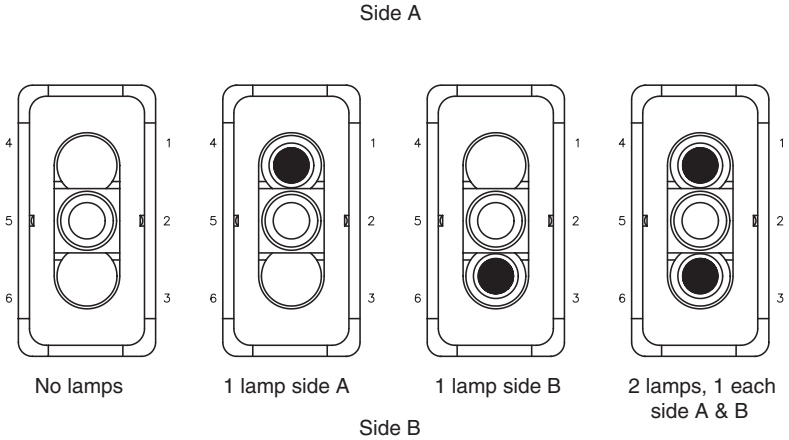
Side A: terminals 1 and 4
Side B: terminals 3 and 6



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

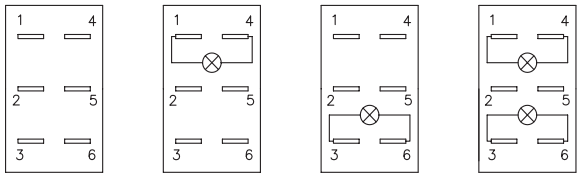
Note - Lamp location for function 1 models (ON - OFF) is always on side B



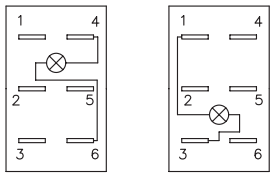
New! KG SERIES - ILLUMINATED & NON-ILLUMINATED ROCKER SWITCHES

B

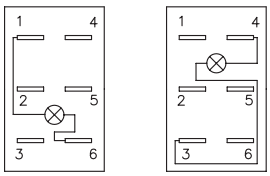
LAMP WIRING



A (standard)

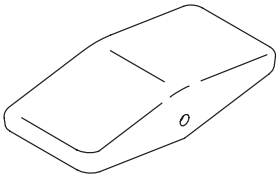


B

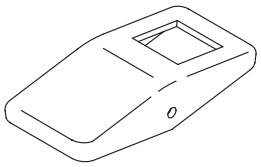


C

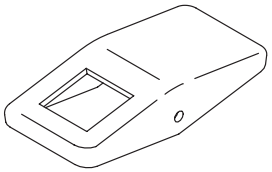
ROCKER SHAPE AND COLORS



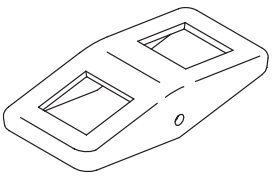
1 Full rocker



4 Opening on side A



6 Opening on side B



8 Opening on sides A and B

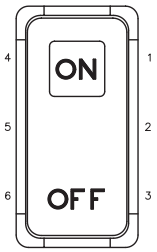
1 Blue
2 Black
3 Green
4 Gray
5 Yellow
6 Red
7 Ivory
9 Orange

Rocker colors

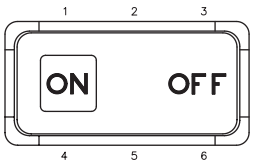
ROCKER MARKING METHOD AND ORIENTATION

MARKING METHODS
L Laser
C Hot stamping

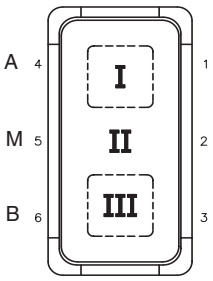
V Vertical orientation



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	I	-	13		Hazard lights	22		Windshield washer
05	II	-	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

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

APEM, PO BOX 8288, HAVERHILL, MA USA 01835-0788 TOLL FREE: (877) 246-7890 FAX: (781) 245-4531 E-mail: info@apem.com

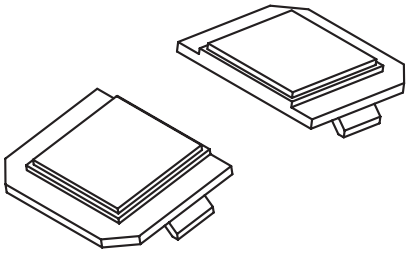
New! KG SERIES - ILLUMINATED & NON-ILLUMINATED ROCKER SWITCHES

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

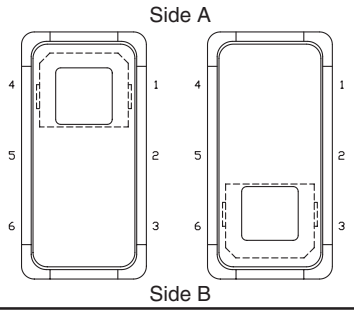
LENS COLOR AND PLACEMENT

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

Lens colors



Lenses



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 Side A	Lamp(s) & placement Side B
K G				A	2		

See Lamps & lamp placement on prior page.

Number of poles
- 3 Single pole
- 4 Double pole

Electrical functions

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.

Terminals
- 0 Screw & clamp
- 2 Solder lug/ quick-connect
- 3 Normalized quick-connect

Contact material
- A Silver

Bezel
- 2 Color black

Lamp(s) & placement

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

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

Lamp wiring	Rocker color	Rocker shape	Lens color & placement side A	Lens color & placement side B	Marking method & orientation		Marking location side A	Marking location Middle	Marking location side B

Lamp wiring
- A (Standard)
- B
- C

See Lamp Wiring on prior page.

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

Rocker shape
- 1 Full
- 4 Open side A
- 6 Open side B
- 8 Open sides A & B

See Rocker Shape and Colors on prior page.

Lens color & placement

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

Marking method & orientation

L	V	Laser,vertical
L	H	Laser, horizontal
C	V	Hot stamp, vert.
C	H	Hot stamp, horiz.

Marking location side A / Middle / side B

Select from Standard Marking Symbols table on prior page.

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")

