Locking power rocker switches



#### **DISTINCTIVE FEATURES**

One protected position
Patented intuitive ergonomics
Laser etched symbols
Illuminated or non-illuminated
Optionally sealed to IP69K



#### **ENVIRONMENTAL SPECIFICATIONS**

- Sealing options:
  - K: IP68 to front panel components of switch only according to IEC 60529
  - Z: IP69K panel sealing according to DIN 40050-9
- Salt spray resistance: 96 hours according to IEC 512-6, test 11f
- $\bullet$  Operating temperature : -40 °C to +85 °C (-40 °F to +185 °F)



#### **ELECTRICAL SPECIFICATIONS**

- · Currrent/voltage rating with resistive load :
- Silver plated contacts:
  - A: 5 A 24 VDC, 100,000 cycles
    - 10 A 24 VDC, 10,000 cycles (terminals 6.35 x 0.8 only)
  - S: 20 A 12 V, 10,000 cycles (see "Build your part number")
- Gold plated contacts (D): 20 mA 12 V, 150,000 cycles
- Initial contact resistance :  $10 \text{ m}\Omega$  max.
- Insulation resistance : 1,000 M $\Omega$  min. at 500 VDC
- Dielectric strength: 2,000 Vrms 50 Hz min. between terminals
- · Mechanical life: 150,000 cycles min.



#### **GENERAL SPECIFICATIONS**

- Mechanical life: 150,000 cycles min.
- Panel thickness: 0.8 mm to 4.6 mm
- Recommended panel thickness: between 2 mm and 3.5 mm

The company reserves the right to change specifications without notice.





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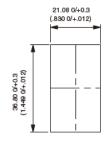


#### **MATERIALS**

- Case: PA 6-6
- · Actuator : ABS
- . Unlocking actuator: ABS or elastomeric membrane
- Bezel : PA 6-6
- Contacts & terminals: brass, solid silver grain, silver plated (A or S) or brass, solid silver grain, gold plated (D)
- · Contact roller: brass, nickel plated



#### PANEL CUT-OUT



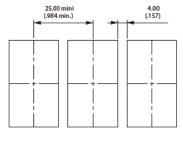


#### **SEALING**

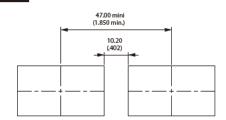
 Sealing is optional. To order a sealed product, complete the appropriate box of ordering format on the following pages.



#### MATRIX MOUNTING



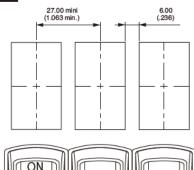




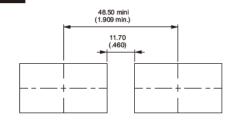


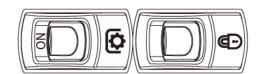


# SPECIFIC MATRIX MOUNTING FOR Z VERSION









#### Locking power rocker switches



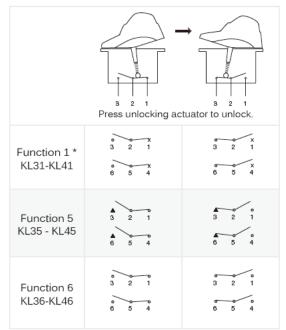
#### **ELECTRICAL FUNCTIONS AND CONNECTIONS**

In the tables below, terminal connections as viewed from bottom of switch. Only the contact area is represented. For single pole models, only terminals 1, 2 and 3 are to be considered (not 6, 5, 4).

x = w/o terminal o = with terminal

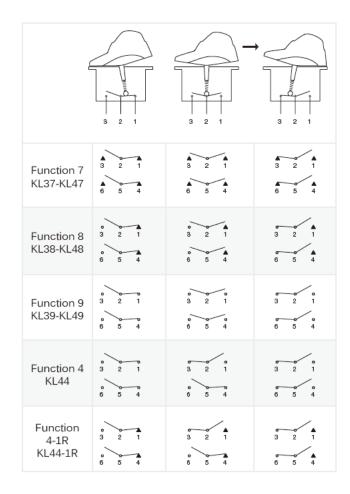
▲ = momentary

2 POSITIONS



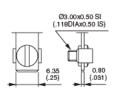
<sup>\*</sup> Function 1: Only available for 6 terminal versions, illuminated versions only available with "A" wiring.

#### 3 POSITIONS





#### **TERMINALS**



Screw

03.10 (.122DIA) 6.35x0.80 (.25x.031) 6.35x0.80 (.250x.031) Ø1.20 (.047DIA) 2.80x0.80 (.110x.031)

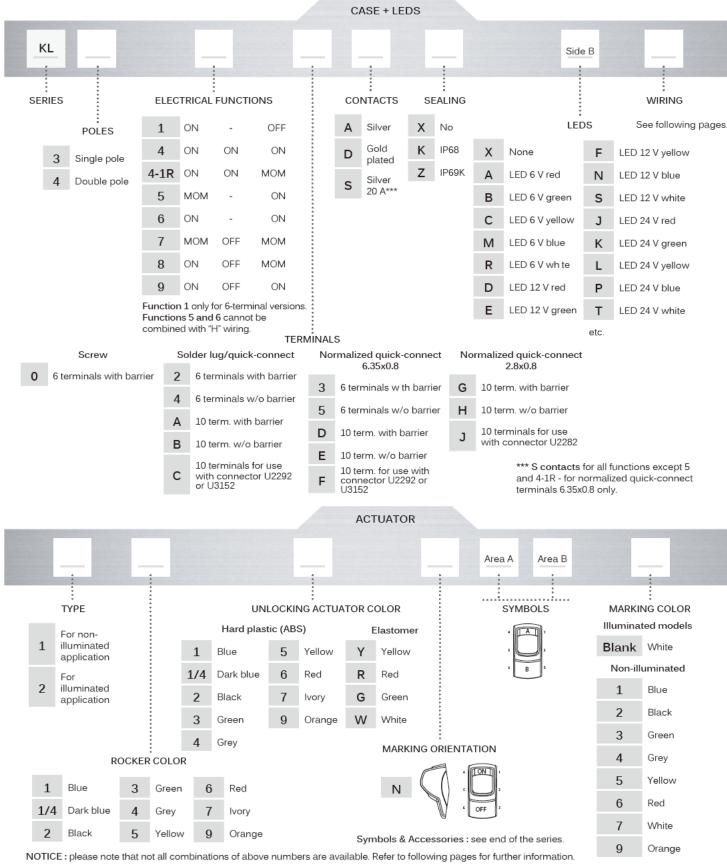
Solder lug / quick-connect

Normalized quick-connect 6.35x0.8

Normalized quick-connect 2.8x0.8

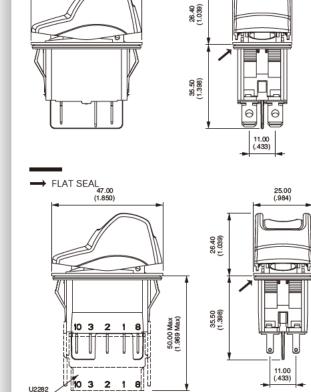
#### Locking power rocker switches

# BUILD YOUR PART NUMBER To order a complete product, fill in all the boxes of the following order guide. CASE + LEDS



#### Locking power rocker switches







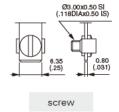
\*Function 4 : single pole in double pole case

# CASE + LEDS TERMINALS BASIC P/N ACTUATOR

2

SCREW

6 terminals with barrier



SOLDER LUG / QUICK-CONNECT

FLAT SEAL 47.00 (1.850)

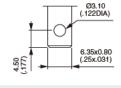
6 terminals with barrier

4 6 terminals w/o barrier

A 10 terminals with barrier

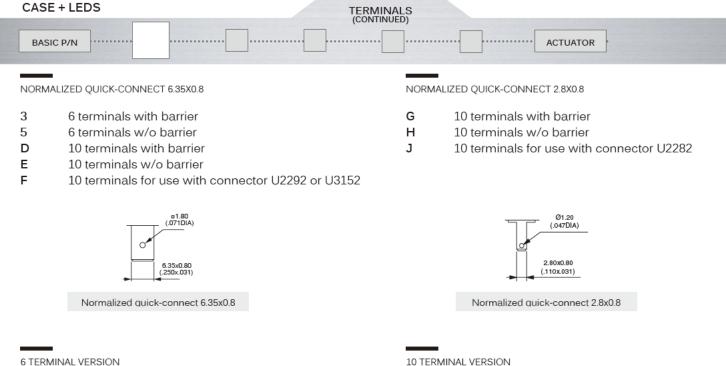
B 10 terminals w/o barrier

C 10 terminals for use with connector U2292 or U3152

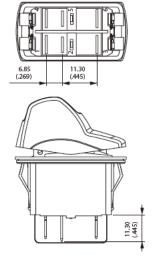


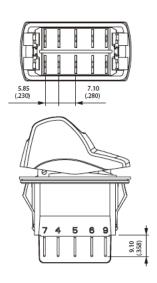
Solder lug / quick-connect

#### Locking power rocker switches

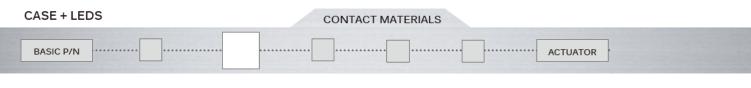


6 TERMINAL VERSION



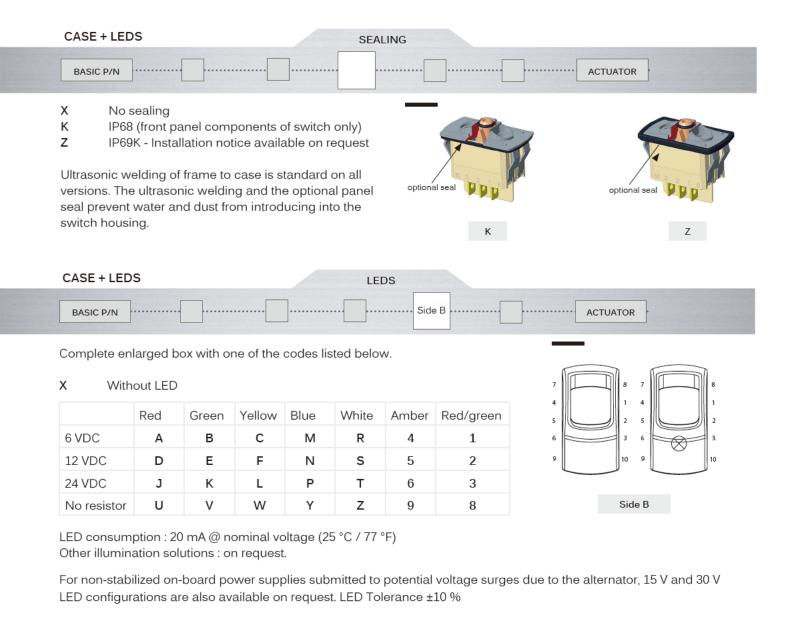


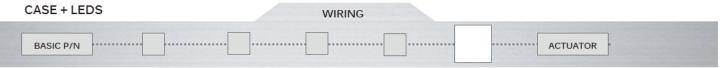
Terminals are marked on the case. The drawings show the maximum possible number of terminals.



- Silver
- D Silver, gold plated
- S Silver 20A. For all functions except 4 and 4-1R - for normalized quick-connect terminals 6.35x0.8 only.

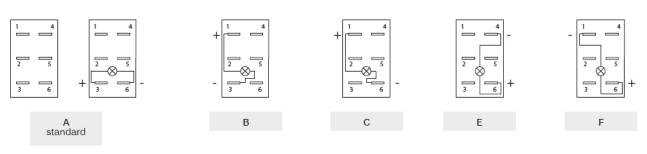
#### Locking power rocker switches





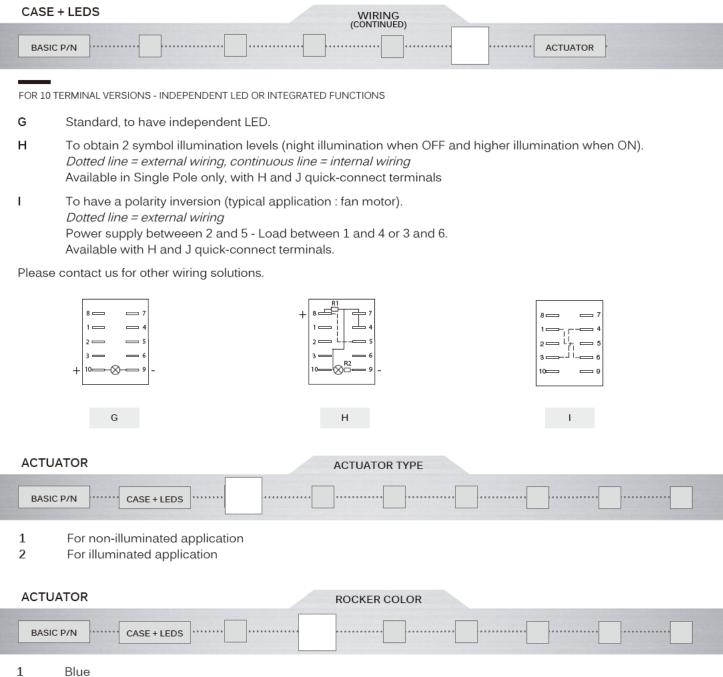
The LED wiring diagram is shown on the case.

FOR 6 TERMINAL VERSIONS - LED CONNECTED TO THE LOAD



Note: If not available, terminals are added to connect the LED.

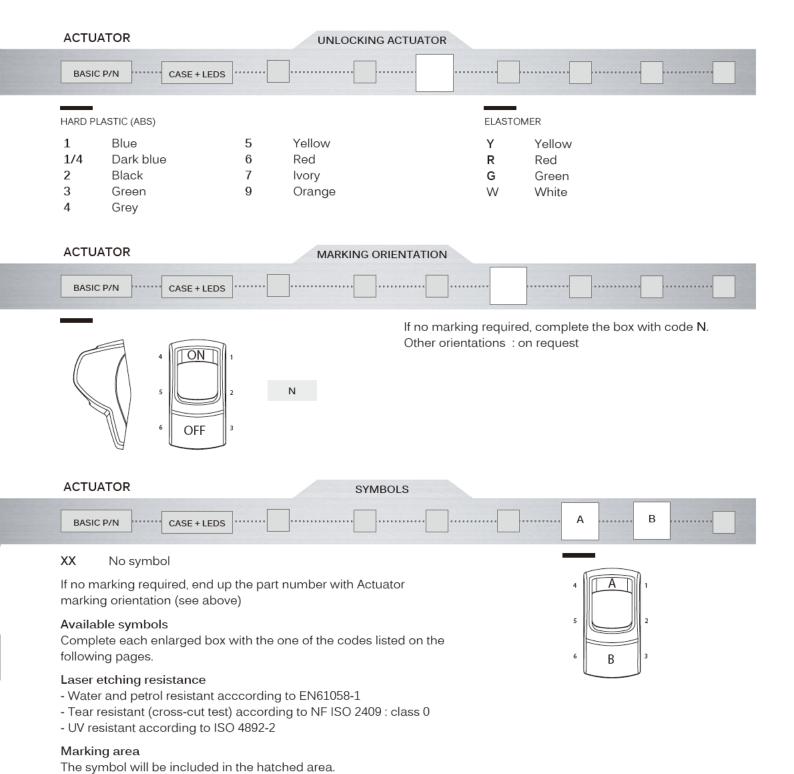
#### Locking power rocker switches



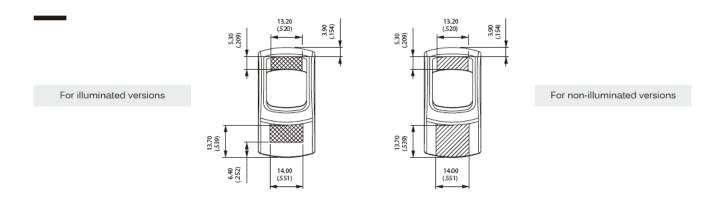
- 1/4 Dark blue
- 2 Black
- 3 Green
- 4 Grey
- 5 Yellow
- 6 Red
- 7 Ivory
- 9 Orange

Note: color 7 not available on illuminated versions

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ILLUMINATED MODELS - LASER ETCHING

Blank White

NON-ILLUMINATED MODELS - PAD PRINTING

- 1 Blue
- 2 Black
- 3 Green
- 4 Grey
- 5 Yellow
- 6 Red
- 7 White
- 9 Orange