

APEM DEVELOPS NEW OPTIONS FOR K SERIES ROCKER SWITCHES

APEM's KR and KL rocker switches feature an up-to-date design with a large selection of colors and markings, extreme robustness and high ratings.

KR and KL series new options are:

- **20 Amp version**

The KR and KL series are now available with 20A 12VDC rating (6.35 quick-connect terminals only). With such a high rating, our rocker switches can now be connected directly to monitor the vehicle functions (illumination, motor...). This option is of high interest in vehicles without electronics or with few embedded functions.

- **Elastomer membrane for the KL series**

Off-road vehicle cabins are often particularly dusty and this can lead to switch blocking. With the new elastomer membrane, the actuator no longer moves, but deforms only, protecting against dust. The rocker ergonomics, robustness and lifecycle remain unchanged. This option is especially crucial in open cabins with a high exposure to dust.

- **IP69K panel sealing**

KR and KL series switches can now be sealed up to IP69K due to a new silicone gasket surrounding the switch frame and covering the housing top.

- **New design for 10-terminal connectors**

10-terminal connectors can prove difficult to connect. APEM's new 10-terminal connector includes spring terminals, making them quicker and easier to mount, with unchanged robustness.



K SERIES APPLICATIONS:

- Agricultural machinery
- Handling equipment
- Construction vehicle cabins
- Off-road vehicles

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KR & KL SERIES



NEW OPTIONS

- 20 A 12 VDC rating
- IP69K panel sealing
- Elastomer membrane (KL series)
- New 10-terminal connector

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OPTION SELECTION



KL / KR

SERIES

POLES

- 3 Single
- 4 Double

ELECTRICAL FUNCTIONS

1	ON	-	OFF
4	ON	ON	ON
4-1R	ON	ON	MOM
5	MOM	-	ON
6	ON	-	ON
7	MOM	OFF	MOM
8	ON	OFF	MOM
9	ON	OFF	ON

Function 1 only for 6-terminal versions.
 Functions 5 and 6 cannot be combined with "H" wiring.

CONTACTS

- A Silver
- D Gold plated
- S Silver 20 A *

* S contacts for all functions except 4 and 4-1R for normalized quick-connect terminals 6.35 x 0.8 only.

SEALING

- X None
- K IP68
- Z IP69K

LEDS

- X None
- A LED 6 V red
- B LED 6 V green
- C LED 6 V yellow
- M LED 6 V blue
- R LED 6 V white
- D LED 12 V red
- E LED 12 V green
- F LED 12 V yellow
- N LED 12 V blue
- S LED 12 V white
- J LED 24 V red
- K LED 24 V green
- L LED 24 V yellow
- P LED 24 V blue
- T LED 24 V white

WIRING

See complete data sheets

TERMINALS

Screw		Normalized quick-connect 6.35 x 0.8	
0	6 terminals with barrier	3	6 terminals with barrier
Solder lug/quick-connect		5	6 terminals w/o barrier
2	6 terminals with barrier	D	10 term. with barrier
4	6 terminals w/o barrier	E	10 term. w/o barrier
A	10 term. with barrier	F	10 term. for use with connector U2292 or U3152
B	10 term. w/o barrier	Normalized quick-connect 2.8 x 0.8	
C	10 terminals for use with connector U2292 or U3152	G	10 term. with barrier
		H	10 term. w/o barrier
		J	10 terminals for use with connector U2282

See data sheets for complete list of options

ELECTRICAL SPECIFICATIONS

Current / voltage rating with resistive load	-	Silver plated contacts A: 5 A 24 VDC, 100,000 cycles -10 A 24 VDC 10,000 cycles S: 20 A 12 V, 10,000 cycles Gold plated contacts D: 20 mA 12 V, 150,000 cycles
Current / voltage rating with lamp load (KR only)	-	Silver plated contacts (A) -functions 1-6 100 W 24 VDC 10,000 cycles -other functions 60 W 24 DC 10,000 cycles
Initial contact resistance	-	10 mΩ max
Insulation resistance	-	1,000 mΩ min. at 500 VDC
Dielectric strength	-	500 Vrms 50 Hz min. between terminals, 2,000 Vrms 50Hz min. between terminals
Mechanical life	-	150,000 cycles min.

ENVIRONMENTAL SPECIFICATIONS

Sealing options	-	K: IP68 to front panel components of switch 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
Vibration resistance (KR only)	-	10-500 Hz / 10 g per IEC 60068-2-6
Operating temperature	-	-40 °C to +85 °C (-104 °F to 185 °F)