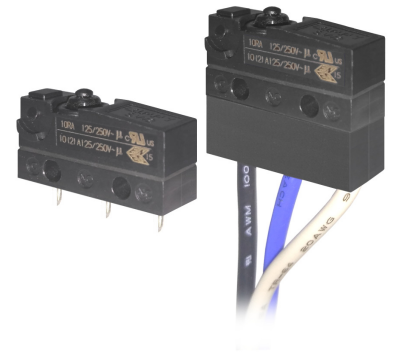


# KP MMP Series

# Enclosed Subminiature Switch

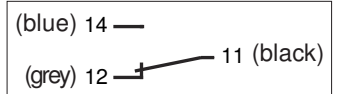
- Compact and fully sealed
- Degree of Protection IP67 (IEC 60529)
- Fixing distances according to DIN 41635-B
- 1NO+1NC changeover circuit with rating up to 10 A
- Snap action contacts mechanism
- Pin plunger, hinge lever, simulated roller hinge lever and roller hinge lever actuators
- Quick connect (faston), solder and PCB terminals
- UL approved component (File E91274 - model SW2)



Degree of Protection  
**IP67**



Circuitry (IEC 60947-5-1)

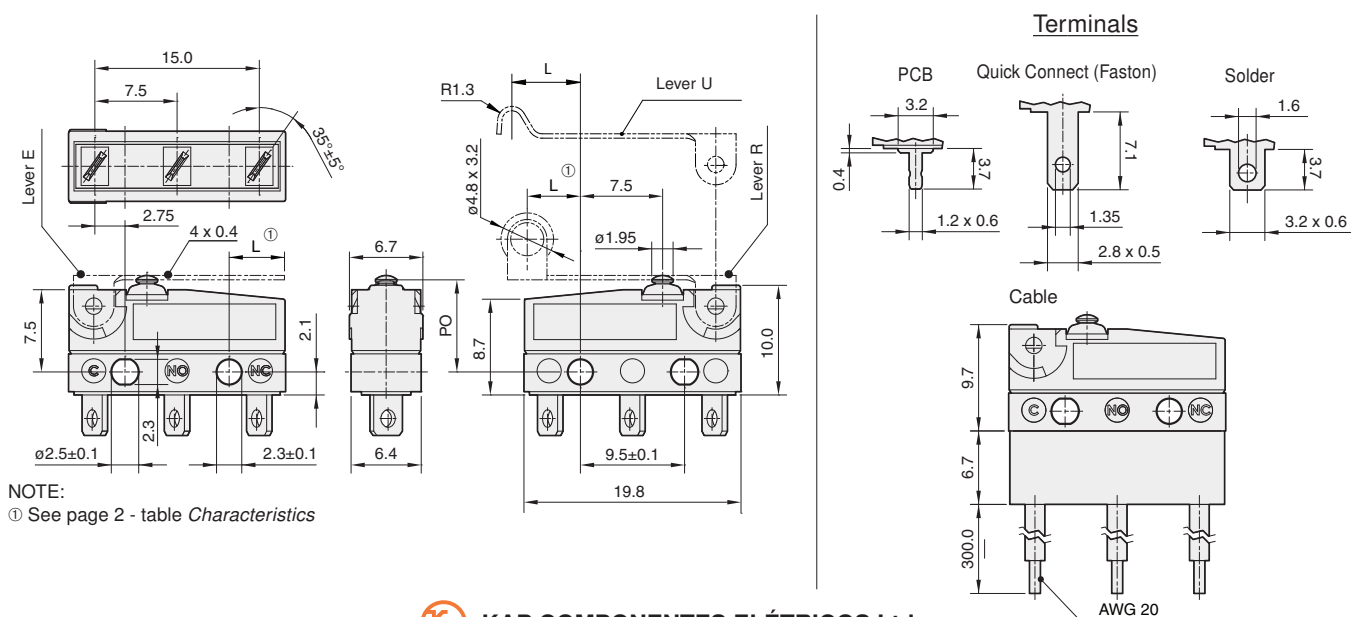


Form C (NO+NC)

## Specifications

Rated Operational Voltage (Ue)	250 Vac	30 Vdc
Rated Operational Current (Ie)	10A	5 A
Degree of Protection	IP67 (IEC 60529)	
Cable	Cable 0,5 mm <sup>2</sup> (AWG 20), length 300 mm	
Ambient Temperature	-40 °C ... +125 °C (with no icing)	
Mechanical Life Expectancy	2.000.000 cycles at 120 cycles/min min.	
Electrical Life Expectancy	10.000 cycles at 120 cycles/min min.	
Contact Resistance (at 100 mA 1 Vdc)	Without Cable: 300 mΩ maximum initial	
	With Cable: 370 mΩ maximum initial	
Materials	Enclosure:	Reinforced thermoplastic
	Actuators:	Level: Level: stainless steel
		Roller: Nickel Plated Brass
	Plunger: reinforced thermoplastic	

## Dimensions (in mm)



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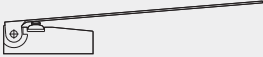
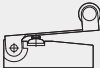



# MMP Series

# Enclosed Subminiature Switch

## Ordering Information

### M M P 1 E 1 N S

Series	Actuator	Terminais
	Pin plunger  = A	PCB = I
	Short Hinge Lever  = E1	Quick Connect (Faston) = F
	Hinge Lever  = E3	Solder = S
	Long Hinge Lever  = E5	Cable = W
	Roller Short Hinge Lever  = R1	
	Simulated Roller Short Hinge Lever  = U1	

Subject to change without prior notice

## Characteristics

**Terminology:** OF .... Operating Force      DT ... Differential Travel  
 OP ... Operating Position      OT ... Overtravel  
 PT .... Pretravel      L ..... Actuator Length (see *Dimensions*)

Actuator	OF max. (gf)	OP (mm)	PT max. (mm)	DT max. (mm)	OT min. (mm)	L (mm)
A	203	8.4 ± 0.3	1.2	0.2	0.4	-
E1	82	8.8 ± 1.1	4.3	0.6	0.6	5.1 ± 0.4
E3	54	8.8 ± 1.6	6.3	0.9	0.9	13.2 ± 0.4
E5	33	8.8 ± 3.5	13.8	3.6	1.0	43.6 ± 0.4
R1	72	14.5 ± 1.1	4.3	0.6	0.6	4.9 ± 0.5
U1	68	11.3±1.3	4.9	0.8	0.6	6.3±0.5

## Special Applications

Even though the products presented in this catalog are models of regular commercial use, we are able to develop "personalized" models for special applications. Contact us.



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