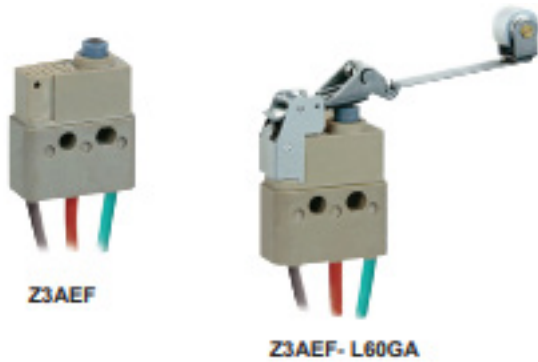




# Z3...E range

## Watertight Subminiature Microswitches



- > Plastic casing: PPS Ryton
- > Gold plated contacts
- > Mounting holes for M2 screws
- > Terminal: 0.38mm<sup>2</sup> (AWG 22) leadwires, FEP insulation
- > Pin actuator or integral actuator (factory assembled)

### Application:

- Operating temperature: -55°C to +150°C
- Rated breaking capacity: from few mA up to 4A
- Degree of protection: IP65 / IP67
- Mechanical service life: 500 000 cycles

### Environmental characteristics:

- Salt spray resistance: 48h
- Humidity: 93% relative humidity, +40° duration 168h
- Sinusoidal vibrations resistance: 5\_500Hz, 10g in each of 3 orthogonal axis

### Mechanical characteristics for microswitches with integral lever:

- Max. operating force for pivot point A: 0.90 to 1.20N
- Max. operating force for pivot point B: 0.60 to 0.90N
- Min. release force for pivot point A: 0.20 to 0.30N
- Min. release force for pivot point B: 0.10 to 0.20N
- Max. pretravel for pivot point A: 1.35 to 2.20mm
- Max. pretravel for pivot point B: 1.85 to 2.90mm
- Max. differential movement for pivot point A: 0.30 to 0.60mm
- Max. differential movement for pivot point B: 0.40 to 0.75mm
- Min. overtravel for pivot point A: 0.35 to 2.60mm
- Min. overtravel for pivot point B: 0.65 to 3.20mm

### Mechanical characteristics for subminiature microswitches:

- Max. operating force: 3.3N
- Min. release force: 0.70N
- Pretravel: 0.17 to 0.42mm
- Max. differential movement: 0.06mm
- Min. overtravel: 0.10mm

### Electrical characteristics:

Ratings (electrical load on one throw only)		5 mV ... 30 V d.c.	30 V d.c.	115 V a.c. - 400 Hz	220 V a.c. - 50 Hz
- resistive load	<b>A</b>	0.05	4	1	1
- inductive load	<b>A</b>	0.025 (L/R ≤ 5 ms)	0.5 (L/R ≤ 5 ms)	-	0.5 (cos φ ≥ 0.3)
<b>Electrical service life</b>	<b>cycles</b>	100 000			
<b>Changeover time</b>	<b>ms</b>	≤ 10			
<b>Contact resistance</b>	<b>mΩ</b>	≤ 25 mΩ under 6 V d.c. - 100 mA according to MIL-PRF-8805 - (As new, wires or cable not included).			
<b>Dielectric strength (50 Hz - 1 mn)</b>					
- between terminals	<b>V a.c.</b>	500 V a.c.			
- between all terminals and earth (ground)	<b>V a.c.</b>	1500 V a.c.			
<b>Insulation resistance</b>	<b>MΩ</b>	≥ 100 MΩ under 500 V d.c. (at 23 °C with < 80 % relative humidity)			