IE Watertight Microswitches

Application

Microswitch for industrial applications where watertightness is required.

- Operating temperature: -20 °C ... +85 °C.
- Rated breaking capacity: from few mA up to 5 amperes.
- Degree of protection: IP66 / IP67.
- Mechanical service life: 1 000 000 cycles..

Description

Environment sealed Microswitch including a snap-action precision switch.

- PA66 polyamide casing.
- Gold plated silver contacts.
- Mounting holes for M3 screws ; mounting centres available: 14 or 19 mm.
- Connections: 3 wiring options in 2 available configurations:
  - 0.75 mm² H05 V-K leadwires - PVC insulated,
  - 2 or 3 x 0.75 mm² A05 VV-F cable - PVC insulated.
- Pin actuator.

Environmental characteristics   (For other test results, please contact us)

Salt spray resistance	48 hours
Humidity	93 % relative humidity, +40 °C duration 168 hours (7 days)
Sinusoidal vibrations	5 _ 500 Hz, 10 g in each of 3 orthogonal axis

Mechanical characteristics

Characteristics according to the actuating point (arrow) indicated on dimension drawings.

Watertight Microswitches		**IE...F**, leadwires terminals / **IE...C,** cable terminals
Max. operating force	N	2.0
Min. release force	N	0.40
Max. pretravel	mm	1.0
Max. differential movement	mm	0.45
Min. overtravel(1)	mm	0.50

(1) Do not exceed this value in use

Electrical characteristic

Ratings (electrical load on one throw only)		**30 V** d.c.	**125 V** a.c. - 50 Hz	**250** V a.c. - 50 Hz
– resistive load	A	50 mA ... 2 A	5 A	2 A
– inductive load	A	25 mA ... 1 A (L/R ≤ 5 ms)	2.5 A (cos φ ≥ 0.3)	1.0 A (cos φ ≥ 0.3)
Electrical service life	cycles	100 000		
Dielectric strength (50 Hz - 1 mn)				
– between terminals	**V a.c.**	500 V a.c.		
– between all terminals and earth (ground)	**V a.c.**	1500 V a.c.		
Insulation resistance	**MΩ**	≥ 100 MΩ under 500 V d.c. (at 23 °C with < 80 % relative humidity)		

Specific Products - Contact us for more information ; data sheet on request.

"ATEX" devices for use in explosive atmospheres - equipment group / category II2GD - according to Directive 94/9/CE .

Coding (example)

IE2 4 2 F

IE	Watertight Microswitch
4	Fixing centres distance 14 mm
9	Fixing centres distance 19 mm

C..... Cable terminals
F...... Leadwires
       See Description section

1..... C-NC Wiring options
2..... C-NO Wiring option
3..... Changeover contact