## **ENERGY HARVESTING WIRELESS SWITCH**



## Description

- Energy harvesting wireless system
- Compact size, with high energy efficiency
- Wireless data transfer via RF-technology
  Reduction of expensive and complex connection systems
  - Flexibility for inaccessible locations
  - No complex wire assembly, no wear
- "Energy Harvesting" the required RF-energy is created by the mechanical actuation of the switch
- Several frequency bands allow global use within different applications
- Network-compatible
- Environmental-friendly no batteries need to be changed or disposed
- Long mechanical life
- Flexible "Pairing" allows the operation of several receivers with one switch (and vice versa)
- "Unique ID" excludes a mutual interference between different RF-switches

## **Technical Data**

Temperature range	- 40 to 85° C
Lifetime	up to 1.000.000 operations
Fatigue strength	max 5g (DIN EN 60068-2)
Shock resistance	max. 15g (DIN EN 60068-2)
Radio frequency	868 MHz or 2.4 GHz
RF distance (free field)	300 metres at 868 MHz 10 m  at 2,4 GHz
Dimensions sample housing	25 x 9,4 x 23,9 mm
Dimensions generator	20,3 x 7,3 x 15,8 mm
Operating force	appr. 8N
Typical total travel	3.4 mm
Energy generated	two times 0,2 up to 0,5 mWs

## Dimensions for sample housing





