

# ACTIV8 ONE

Opening and monitored safety combined in a single sensor for automatic sliding doors



## Technologies

- Microwave and active infrared combined in a single housing
- Digital electronics

## Detection

- Motion for the **unidirectional opening** (detection of movements towards the sensor)
- **Presence** for a monitored safety thanks to a **double curtain of 24 overlapping spots** each which ensures a homogeneous and reliable detection

## Adjustments

- Made easier thanks to the factory **pre-configurations**
- You only have to press one button of the remote control for an optimal setting of the sensor. The usual dip-switch is now in your hands !
- With the BEA universal remote control to adjust both "radar" and "infrared" parts of the sensor or with push-buttons

## Look

- **Vandalproof** housing
- Reduced size
- Robust materials

- Mounting beams is not necessary anymore thanks to the **double 3-D safety curtain** <sup>(1)</sup>
- Very **reliable detection** in sensitive environments (**reflective floors, HF-lamps, ...**) thanks to a new filtration software
- Ease of installation and setting with the remote control thanks to the **factory pre-configurations** in conformity with the national and international norms
- In option, **intelligent communication with the door controller**
- The ACTIV8 ONE range
  - **ACTIV8 ONE OFF** : standard version
  - **ACTIV8 ONE ON** <sup>(2)</sup>: version with monitoring process activated
  - **ACTIV8 ONE PULSE** <sup>(2)</sup>: version with monitoring process controlled by pulses

(1) depending on type of door and national regulations in force

(2) TÜV approved (German certification body)

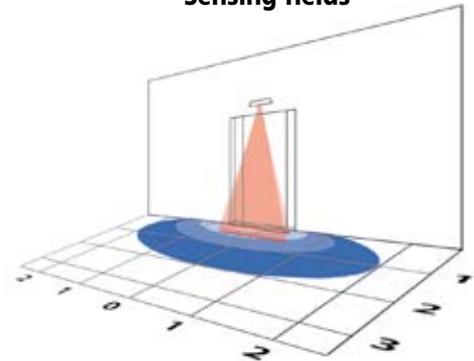


## Description

- 1 Spare antenna
- 2 Planar antenna
- 3 IR unit
- 4 Push buttons values/functions + set-up
- 5 Narrow field front cover
- 6 Wide field front cover



## Sensing fields



**Radar sensing fields in accordance with sensitivity setting**  
(tilt angle 27° with wide field antenna)  
**Safety curtain**  
(tilt angle 0° with wide field front cover)  
**Mouting height: 2.20 m - 3 elements-antenna**

## Accessories



- 1 **REMOTE CONTROL**
- 2 **SPOTFINDER** : for positioning the infrared curtains
- 3 **ABA** : bracket
- 4 **ACA** : for ceiling mounting
- 5 **ARA** : rain cover

## Technical specifications

Supply voltage	12 V (- 5%) to 24 V (+ 10%) AC/DC or DC (PULSE)
Mains frequency	50-60 Hz
Mounting height	1.8 m to 4 m
Temperature range	-25°C to +55°C
Dimensions	262 mm (L) x 55 mm (H) x 44 mm (D)
Useful length of cable	± 2.6 m
Colours	anthracite grey, white or aluminium-finish
Degree of protection	IP54

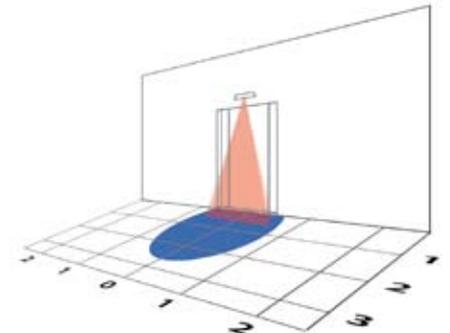
### Motion Sensor

Transmitter frequency	24.175 GHz
Transmitter radiated power	< 20 dBm EIRP
Transmitter power density	< 5 mW/cm <sup>2</sup>
Detection field	
• Wide	: 4 m (width) x 2 m (depth)
• Narrow	: 2 m (width) x 2.5 m (depth)
Angle	15° to 50° in elevation (adjustable)
Output relay (contact free of potential)	
• Max. contact voltage	42 V AC/DC
• Max. contact current	1 A (resistive)
• Max. switching power	30 W (DC) / 60 VA (AC)

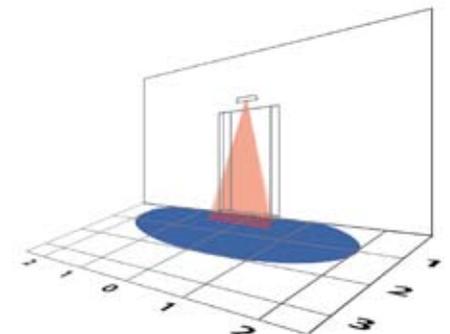
### Presence Sensor

Detection field	
• Wide	: 2 m (width) x 0.35 m (depth)
• Narrow	: 1 m (width) x 0.35 m (depth)
Angle	- 4° to + 4° (adjustable)
Output ON (optocoupled transistor; free of potential)	
• Max. output current	100 mA
• Max. switching power	42 V DC
Output OFF (relay with contact free of potential)	
• Max. contact voltage	42 V AC/DC
• Max. contact current	1 A (resistive)
• Max. switching power	30 W (DC) / 60 VA (AC)
Output PULSE (optocoupled transistor) requiring external pull-up resistor	
• Max. output current	25 mA
• Max. switching power	40 V DC
• Max. pulse amplitude	0,8V
Input PULSE (Optocoupler)	
• Input Impedance	100kΩ
• Max. input voltage	30 V DC
• External pull-up resistor	≤ 470 Ω*
• Min. Pulse amplitude (Vpp)	> 50% of sensor supply voltage
• Max. Pulse duration	100µs @ 25 mA output current
• Min. time interval between pulses	> pulse duration

\* check that the door controller is compatible with this value



**Radar sensing fields in accordance with type of antenna and sensitivity**  
(tilt angle 27° with narrow field antenna)  
**Safety curtain**  
(tilt angle +4° with narrow field front cover)  
**Mouting height: 2.20 m - 6 elements-antenna**



**Radar sensing fields**  
(tilt angle 27° with wide field antenna)  
**Safety curtain**  
(tilt angle -4° with narrow field front cover)  
**Mouting height: 2.20 m - 3 elements-antenna**

## Application



Subject to modification

