

# FLATSCAN SW

**FLATSCAN SW** uses LASER technology (time-of-flight measurement) and is ideal for swing doors. It generates 170 measurement points to provide complete protection for doors and users.

Easy to install, a single FLATSCAN SW is sufficient to cover the entire width and height of the door leaf, as well as the shear zone, regardless of its dimensions.

**LASER  
Technology**



## Compact design

The FLATSCAN SW can be used on swing doors of any size. Its compact design (8.5 cm x 14.2 cm) makes it easy to store.



## Independent of floor and surrounding environment

Laser technology guarantees stability regardless of the type of floor (wire mesh, absorbent carpet, reflective flooring, slippery surface, etc.). It is also independent of the surrounding environment (handrails, walls, radiators, bins, etc).



## Cut-off zone protection

FLATSCAN SW covers the area of the door hinge to protect hands and fingers during closing. It has 100 points, distributed over 18° in the cut-off zone.



## Rapid and intuitive installation.

The size of the sensor area is defined by the movement of the hand.

The sensor can be adjusted using the **CTRL remote control** (rif. APE-790/0103)



- **Technology:** LASER scanner, time-of-flight measurement
- **Maximum detection distance:** 4m (diag) with 2% reflectivity (e.g.: at l=1.5m -> max. H=3.7m)
- **Opening angle Door protection:** 86° / Hinge area: 18°
- **Angular resolution Door protection:** 1.23° / Hinge area: 0.18°
- **Dimensions of detected object:** Door protection: 10 cm @ 4m - Hinge area: 2 cm @ 4m
- **Emission characteristics:** Infrared LASER Wavelength 905 nm; max. pulse output 25 W; Class 1
- **Power supply / Consumption:** 12-24V DC  $\pm$  15% /  $\leq$  2 W
- **Response time Door protection:** max 50 ms / Hinge area: max 90 ms
- **Output:** 2 electronic relays (galvanic isolation - non-polarised) - Maximum switching voltage: 42V AC/DC - Maximum switchable current: 100 mA
- **LED indicators** 1 two-colour LED: status detection / output
- **Dimensions:** 142 mm (W)  $\times$  85 mm (H)  $\times$  23 mm (D) (mounting bracket + 7 mm)
- **Adjustment angle / Protection rating:** +2° to +10° (without mounting bracket) / IP54
- **Temperature range / Humidity:** -30°C up to +60°C under voltage / 0-95% non-condensing
- **Regulations:** RoHS 2 2011/65/EU; MD 2006/42/EC; EMC 2014/30/EU; LVD 2014/35/EU EN12978; EN ISO 13849-1PI "d"/ CAT2; EN 60529; IEC 60825-1; EN 60950-1; EN 61000-6-2; EN 61000-6-3; IEC 61496-1; EN 61496-3 ESPE Type 2; EN 62061 SIL 2; DIN 18650-1 Chapter 5.7.4 (testbody CA); EN 16005 Chapter 4.6.8 (testbody CA)

**APE - 790 / 2022**



**FLATSCAN SW  
DX-SX pair laser  
detector for doors**

**APE - 790 / 2010**



**FLATSCAN SW  
single SX laser  
detector for doors**

**APE - 790 / 2011**



**FLATSCAN SW  
single DX laser  
detector for doors**

## Accessoires

**APE - 790 / 2015**



**GDA - bracket on  
glass for FLATSCAN**

**APE - 790 / 2016.D**

**RIGHT COVER**

**APE - 790 / 2016.S**

**LEFT COVER**



**Protective COVER  
for FLATSCAN**