

EN 16005

SAFETY REQUIREMENTS FOR SLIDING DOORS



EN 16005 INSTALLATIONS



IS IT LAW ?

An automatic door is a machine. Therefore all installations must comply with the Machinery Directive which is European law.

The easiest way to meet the essential health and safety requirements of the Machinery Directive is to follow the EN 16005 standard, which is a harmonised standard under the Machinery Directive.

By meeting the provisions of EN 16005 your installation is presumed to comply with the minimum legal health and safety requirements related to machines.

GENERAL RULE

"THE ON-SITE RISK ANALYSIS TAKES INTO ACCOUNT THE PREVENTION OF CONTACT BETWEEN THE MOVING DOOR LEAF AND THE USER, IF A SIGNIFICANT PROPORTION* OF THE USERS ARE VULNERABLE"

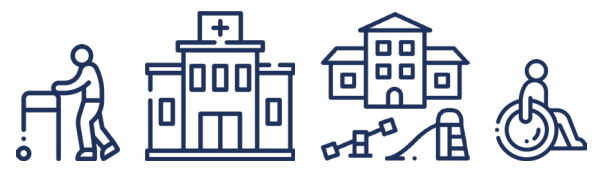
*Significant proportion means sufficiently great or important to be worthy of attention because of the potential consequence.

TOLERATED RISK Office, administration, building,...



CONTACT WITH THE DOOR IS **TOLERATED**

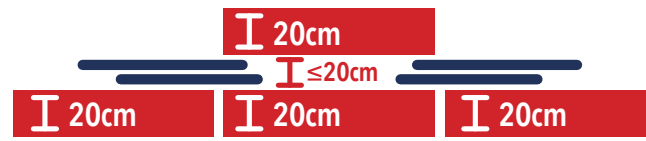
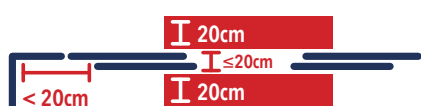
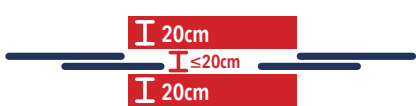
HIGH RISK Hospital, kindergarten, elderly home,...



CONTACT WITH THE DOOR IS **FORBIDDEN**

CLOSING SAFETY — CLOSING AND SIDE SCREEN SAFETY

CLOSING AND SIDE SCREEN SAFETY

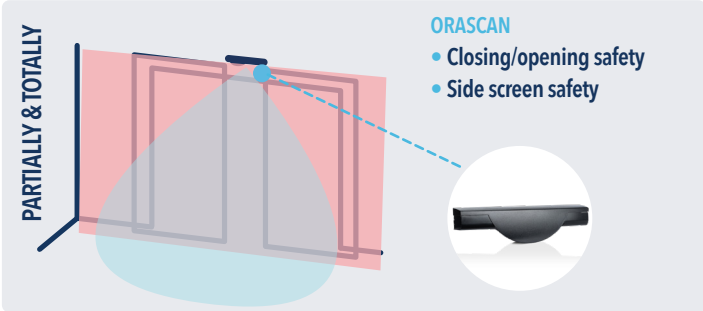
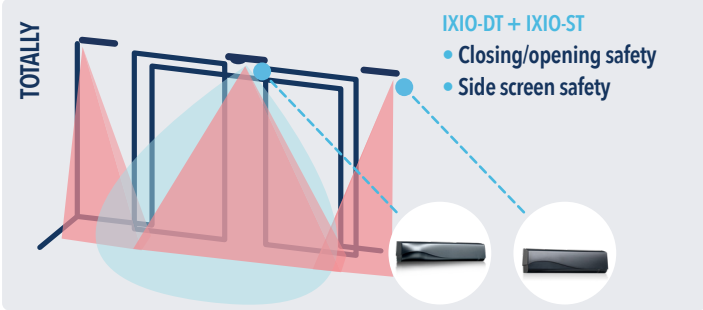
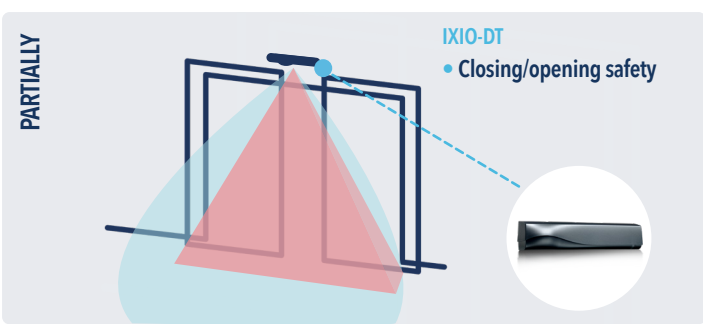


SECURE PARTIALLY :
• If no obstacle during opening

SECURE TOTALLY :
• If $X < 20\text{cm}$, secure the whole width of the door to prevent crushing risk

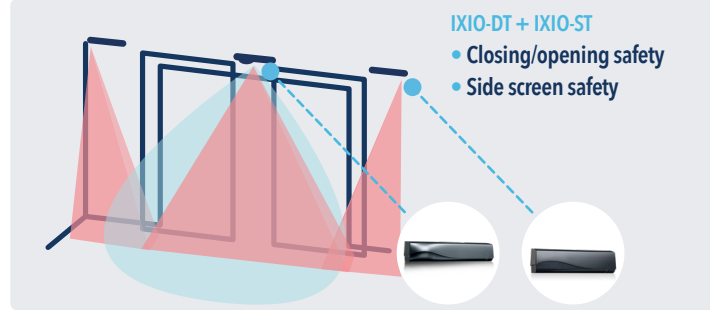
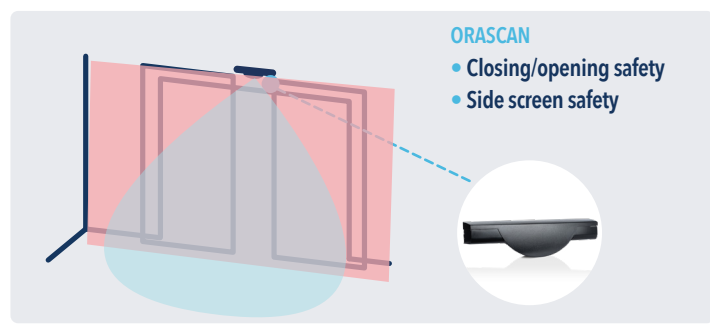
SECURE THE CLOSING AND OPENING AREA OF THE DOOR

SOLUTION



SOLUTION

SOLUTION



SOLUTION

GUIDELINE TO COMPLY WITH THE EN 16005

CHOICE OF SENSOR ACCORDING TO THE LEVEL OF SAFETY

CHOOSE YOUR SITUATION

LEVEL OF SAFETY REQUIRED	FULL SAFETY	PARTIAL SAFETY
	CLOSING SAFETY : MANDATORY SIDE SCREEN SAFETY : MANDATORY	CLOSING SAFETY : MANDATORY SIDE SCREEN SAFETY : NOT NEEDED
Majority of elderly people, disabled people and children	✓	✗
Contact between a person and the door is forbidden	✓	✗
Distance between the wall and the door totally open > 20 cm	✓	✗
Minority of elderly people, disabled people and children and contact between a person and the door is allowed	✓	✓
Distance between the wall and the door totally open < 20 cm	✓	✓
RECOMMENDED SENSORS	1 ORASCAN Kit 2 IXIO-DT1/DT3 2 IXIO-ST	2 IXIO-DT1/DT3 1 ORASCAN Kit

BEA EN 16005 PRODUCTS

SLIDING DOORS



ORASCAN

- Combined technology
- Threshold & side screen safety
- Radar for opening inc. escape routes
- Laser technology for safety
- Push & comply installation



IXIO-DT1 / IXIO-DT3

- Combined technology
- Radar for opening / Escape route opening radar
- Stable IR for safety
- Intuitive installation



IXIO-ST

- Side screen safety protection
- Stable IR for safety
- Intuitive installation



A Halma company

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