

Ditec

PAS024AS(W)

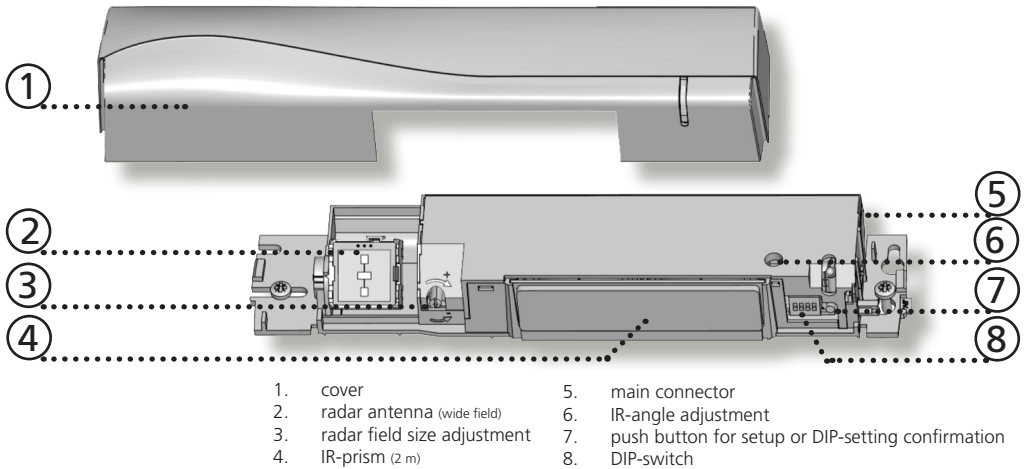
OPENING & SAFETY SENSOR
FOR AUTOMATIC SLIDING DOORS

PAS024ASW: energy-saving unidirectional sensor

PAS024AS: bidirectional sensor



DESCRIPTION



TECHNICAL SPECIFICATIONS

Supply voltage:	12 V - 30 V DC -5%/+10% (to be operated from SELV compatible power supplies only)
Power consumption:	< 2.2 W
Mounting height:	1.8 m to 3 m
Sensitivity of the test input:	< 1 V : Log. L; > 10 V: Log. H (max. 30 V)
Temperature range:	-25 °C to +55 °C
Degree of protection:	IP54
Noise:	< 70 dB
Expected lifetime:	20 years
Conformity:	EN 16005; EN 12978; EN IEC 62061SIL2, EN 61496-1 ESPE Type 2; EN ISO 13849-1 PI «C» CAT.2 (under the condition that the door control system monitors the sensor at least once per door cycle)



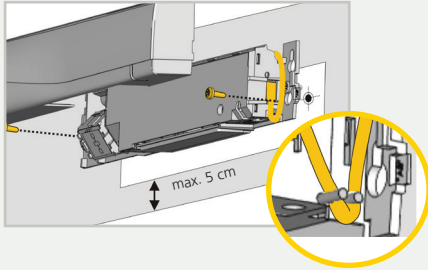
GREEN LED



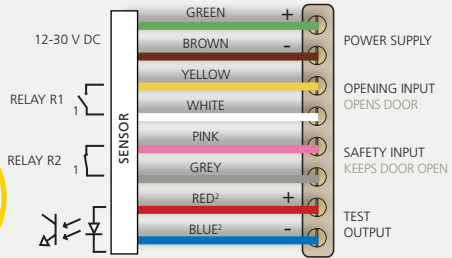
RED LED

Detection mode:	Motion	Presence
	Min. detection speed: 5 cm/s	Typical response time: <256 ms
Technology:	Microwave doppler radar	Active infrared with background analysis
	Transmitter frequency: 24.150 GHz	Spot diameter: 0.1 m (typ)
	Transmitter radiated power: < 20 dBm EIRP	Number of spots: 24
	Transmitter power density: < 5 mW/cm ²	Number of curtains: 2
Angle:	From 15 ° to 50 ° vertical (adjustable)	From -4 ° to +4 ° (adjustable)
Output:	Solid-state-relay	Solid-state-relay
	(free of potential, free of polarity)	(free of potential, free of polarity)
	Max. contact current: 100 mA Max. contact voltage: 42 V AC/DC	Max. contact current: 100 mA Max. contact voltage: 42 V AC/DC
Hold time output signal:	0.5 s	0.3 s to 1 s (not adjustable)
Response time on test request:		Typical: < 5 ms

1 MOUNTING & WIRING



The door control unit and the door cover profile must be correctly earthed.



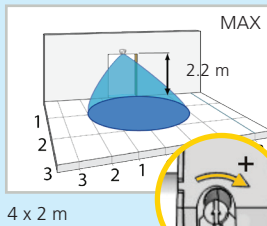
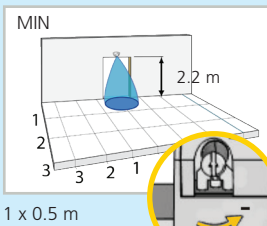
¹ Output status when sensor is operational

² For compliance with EN 16005, connection to door controller test output is required.

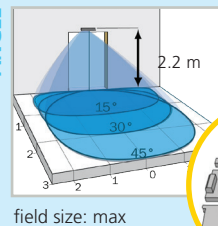
2 RADAR FIELD - OPENING IMPULSE



FIELD SIZE



ANGLE

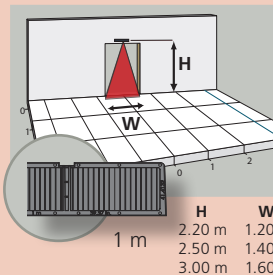
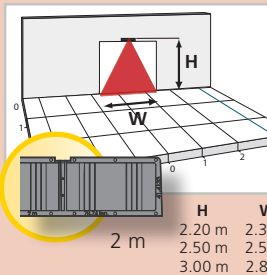


The size of the detection field varies according to the mounting height of the sensor.

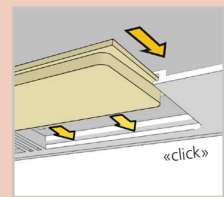
3 INFRARED FIELD - SAFETY



WIDTH

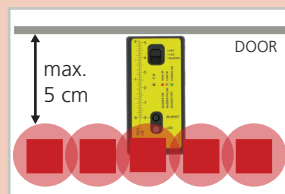


Available as accessory



Detection field width indicated according to conditions defined in EN 16005 and including dimension of test body CA.

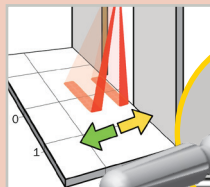
ANGLE



Check position of IR-curtains with Spotfinder and adjust if necessary.



@ 2.2 m:
Depth of curtain : 8-10 cm
Depth of safety field : 25 cm*



* in standard presetting

4 SETTINGS (by DIP-switch)



¹ Can only be used if DIP 4 is OFF.

² Not available on VIO-DT2. If selected, the presetting «standard» is applicable.

³ Enhanced IR-immunity which excludes EN 16005-conformity of the door system.

⁴ The opening relay (R1) is activated in case of detection in the radar **or** infrared field.

standard: standard environments (factory setting)

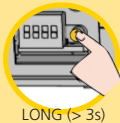
critical environment: enhanced immunity (rain, snow, lamps...) and only 1 IR-curtain activated.

shopping street: optimized for narrow sidewalks > the opening relay (R1) is activated in case of detection in radar + IR-field.

hospital: optimized for persons with reduced mobility (PRM)



ORANGE



LONG (> 3s)



OFF

After changing a DIP-switch, the orange LED flashes. A LONG push on the push button confirms the setting.

Always launch a setup after changes of the DIP-settings.

5 SETUP



Step outside of the infrared field before launching a setup.

QUICK SETUP



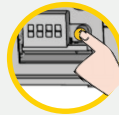
SHORT



RED-GREEN

OFF

ASSISTED SETUP



LONG (> 3s)



OPEN+CLOSE



RED-GREEN

OFF

TIP: Launch an **ASSISTED SETUP** to verify wiring, position of the curtains and correct functioning of the sensor.











SAFETY INSTRUCTIONS

- Test the good functioning of the installation before leaving the premises.
- The device cannot be used for purposes other than its intended use. All other uses cannot be guaranteed by the manufacturer of the sensor.
- The manufacturer of the door system is responsible for carrying out a risk assessment and installing the sensor and the door system in compliance with applicable national and international regulations and standards on door safety.
- The manufacturer of the sensor cannot be held responsible for incorrect installations or inappropriate adjustments of the sensor.
- Only trained and qualified personnel may install and setup the sensor.
- The warranty is void if unauthorized repairs are made or attempted by unauthorized personnel.
- Avoid touching any electronic and optical components, avoid vibrations, do not cover the sensor and avoid proximity to neon lamps or moving objects.
- It is recommended to clean the optical parts at least once a year or more often if required due to environmental conditions.

LED-SIGNALS

PLEASE KEEP FOR FURTHER USE - DESIGNED FOR COLOUR PRINTING

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	The ORANGE LED flashes quickly.	A DIP-switch was changed without confirmation.	<ol style="list-style-type: none"> 1 Confirm the DIP-settings by a long push on the push button.
	The ORANGE LED flashes 1 x.	The sensor signals an internal fault.	<ol style="list-style-type: none"> 1 Cut and restore power supply. 2 If orange LED flashes again, replace sensor.
	The ORANGE LED flashes 2 x.	Irregularities in the power supply	<ol style="list-style-type: none"> 1 Check power supply. 2 Check wiring.
	The ORANGE LED flashes 4 x.	The sensor receives not enough IR-energy.	<ol style="list-style-type: none"> 1 Use the 1 m prism if possible (accessory). 2 Check the angle of the IR-curtains.
	The ORANGE LED flashes 5 x.	The sensor receives too much IR-energy.	<ol style="list-style-type: none"> 1 Use a low energy prism if possible (accessory). 2 Check the angle of the IR-curtains.
	The ORANGE LED is on.	The sensor encounters a memory problem.	<ol style="list-style-type: none"> 1 Cut and restore power supply. 2 If orange LED lights up again, replace sensor.
	The RED LED flashes quickly after an assisted setup.	The sensor sees the door during the assisted setup.	<ol style="list-style-type: none"> 1 Check the angle of the IR-curtains. 2 Launch a new assisted setup. <i>Attention: Do not stand in the detection field!</i>
	The RED LED lights up sporadically.	The sensor vibrates.	<ol style="list-style-type: none"> 1 Check if the sensor is fastened firmly. 2 Check position of prism and cover.
		The sensor sees the door.	<ol style="list-style-type: none"> 1 Launch an assisted setup and adjust the IR angle.
		The sensor is disturbed by lamps or another sensor.	<ol style="list-style-type: none"> 1 Choose the critical environment presetting (DIP 1+2).
	The GREEN LED lights up sporadically.	The sensor is disturbed by the rain.	<ol style="list-style-type: none"> 1 Choose the critical environment presetting (DIP 1+2).
		Ghosting	<ol style="list-style-type: none"> 1 Change radar antenna angle.
		The sensor vibrates.	<ol style="list-style-type: none"> 1 Check if the sensor is fastened firmly. 2 Check position of cable and cover.
		The sensor sees the door or other moving objects.	<ol style="list-style-type: none"> 1 Remove the objects if possible. 2 Change radar field size.
	The LED is off.		<ol style="list-style-type: none"> 1 Check connections to test output. 2 If your door controller is not able to test the sensor, connect the red and blue cable to the power supply.*
		The reaction of the door does not correspond to the LED-signal.	<ol style="list-style-type: none"> 1 Change the activation mode of relay R1 (DIP 4).

*excludes EN 16005-conformity of the door system

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ASSA ABLOY Entrance Systems AB, Lodjurgatan 10, SE-261 44 Landskrona, Sweden, hereby declares that the PAS024ASW & PAS024AS are in conformity with the basic requirements and the other relevant provisions of the directives 2014/53/EU, 2011/65/EU and 2006/42/EC. Notified Body for EC-type inspection: 0044 - TÜV NORD CERT GmbH, Langemarkstr. 20, D-45141 Essen
EC-type examination certificate number: 44 205 13 089601-001
Landskrona, april 2021 Matteo Fino, authorized representative and responsible for technical documentation
The complete declaration of conformity is available on our website.



Only for EC countries: According to the European Guideline 2012/19/EU for Waste Electrical and Electronic Equipment (WEEE)