ENTRE/MATIC





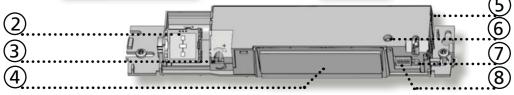
DESCRIPTION

Entrematic PASO24AS(W)

Opening & safety sensor for automatic sliding doors

PASO24ASW: energy-saving unidirectional sensor PASO24AS: bidirectional sensor





- 2. radar antenna (wide field)
- 3. radar field size adjustment
- 4. IR-prism (2 m)

CDEEN

- 5. main connector
- 6. IR-angle adjustment
- 7. push button for setup or DIP-setting confirmation
- 8. DIP-switch

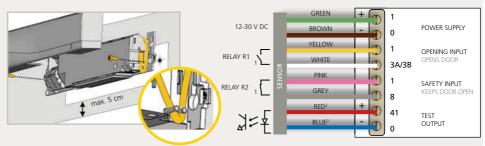
TECHNICAL SPECIFICATIONS

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
Norm 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	LED 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/cm2	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 current: 100 mA
	Max. contact voltage: 42 V AC/DC	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 reque	st:	Typical: < 5 ms

A DED

1 MOUNTING & WIRING



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

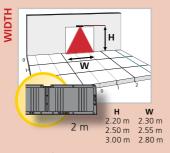
- ¹ Output status when sensor is operational
- ² For compliance with EN 16005, connection to door controller test output is required.

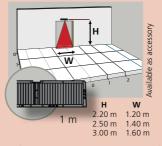
RADAR FIELD - OPENING IMPULSE WAX 1 x 0.5 m A x 2 m GREEN GR

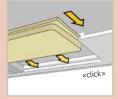
The size of the detection field varies according to the mounting height of the sensor.

3 INFRARED FIELD - SAFETY

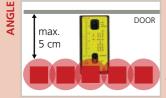








Detection field width indicated according to conditions defined in EN 16005 and including dimension of test body CA.



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



SETTINGS (by DIP-switch)







PRESETTINGS

hospital²



extreme3

ENVIRONMENT



motion or presence4









shopping street1



standard





- 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)









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.

SETUP



Step outside of the infrared field before launching a setup.

QUICK SETUP







SHORT

ASSISTED SETUP







LONG (> 3s)

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.

-310	JIVALS		
×.	The ORANGE LED flashes quickly.	A DIP-switch was changed without confirmation.	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.	1 Cut and restore power supply. 2 If orange LED flashes again, replace sensor.
2	The ORANGE LED flashes 2 x.	Irregularities in the power supply	1 Check power supply. 2 Check wiring.
4	The ORANGE LED flashes 4 x.	The sensor receives not enough IR-energy.	 Use the 1 m prism if possible (accessory). Check the angle of the IR-curtains.
5	The ORANGE LED flashes 5 x.	The sensor receives too much IR-energy.	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.	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.	1 Check the angle of the IR-curtains. 2 Launch a new assisted setup. Attention: Do not stand in the detection field!
	The RED LED lights up	The sensor vibrates.	 Check if the sensor is fastened firmly. Check position of prism and cover.
	sporadically.	The sensor sees the door.	1 Launch an assisted setup and adjust the IR angle.
		The sensor is disturbed by lamps or another sensor.	1 Choose the critical environment presetting (DIP 1+2).
		The sensor is disturbed by the rain.	1 Choose the critical environment presetting (DIP 1+2).
	The GREEN LED lights up	The sensor is disturbed by rain and/or leaves.	1 Choose the critical environment presetting (DIP 1+2).
	sporadically.	Ghosting	1 Change radar antenna angle.
		The sensor vibrates.	Check if the sensor is fastened firmly.Check position of cable and cover.
		The sensor sees the door or other moving objects.	1 Remove the objects if possible. 2 Change radar field size.
	The LED is off.		Check connections to test output. 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.		1 Change the activation mode of relay R1 (DIP 4).
			*excludes EN 16005-conformity of the door syst

ENTRE/MATIC Entrematic Group AB - Lodjursgatan 10 - SE-261 44 Landskrona - Sweden - www.entrematic.com



Entrematic Group AB, Lodjursgatan 10, SE-261 44 Landskrona, Sweden, hereby declares that the Entrematic PAS024ASW & PAS024AS is 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, Langemarckstr. 20, D-45141 Essen EC-type examination certificate number: 44 205 13 089601-001



Landskrona, September 2016 Marco Pietro Zini, authorized representative and responsible for technical documentation The complete declaration of conformity is available on our website.