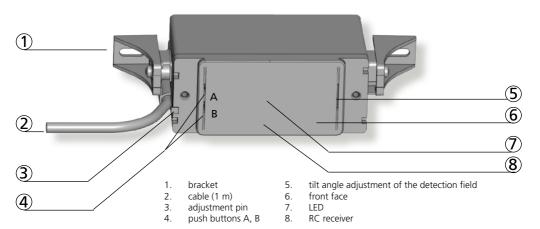
RS-15

Opening and presence sensor for automatic internal train doors

User's Guide for product version 0102 and higher and products with serial number RM 009500 and higher (see product label)

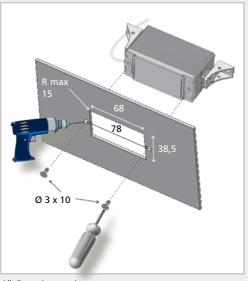
DESCRIPTION

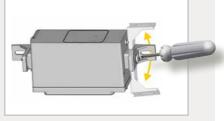


TECHNICAL SPECIFICATIONS

Technology:	active infrared		
Detection mode:	opening and presence		
Max. detection zone:	1 m (W) x 1.2 m (D)		
(mounting height 2 m; tilt angle 20°)	15 independent IR-spots with a diameter of typ. 130 mm		
Reaction time:	< 100 ms		
Supply voltage:	12V - 30V AC ±10%; 12V - 45V DC ±10%		
Mains frequency:	50 - 60 Hz		
Power consumption:	< 3 W (VA)		
Output:	relay (free of potential change-over contact)		
Max. contact voltage:	42 V AC - 60 V DC		
Max. contact current:	1A (resistive)		
Max. switching power:	30 W (DC) / 42 VA (AC)		
Connection on sensor side:	unpluggable integrated 7-pin connector		
Hold time:	0.5 s to 9 s (adjustable)		
LED-signal:	red and orange		
Mounting height:	max. 2.5 m (flush-mounting)		
Degree of protection:	IP41		
Temperature range:	ure range: -25 °C to + 55 °C (operating); -30 °C to + 60 °C (storage)		
Dimensions:	140 mm (W) x 38 mm (H) x 55 mm (D)		
Tilt angles:	0° to 16° vertical in steps of 4°		
Material:	PC		
Weight:	100 g		
Norm conformity (sensor without cable): EN 50155 (if nominal supply voltage is 24 V)			
	EN 45545-2; NF F16-101; EN 50121-3-2; EN 50581		
Norm conformity (cable):	EN 45545-2; EN 50581		

1 MOUNTING & WIRING





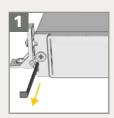
Loosen the screws to adapt the brackets to your application if necessary.



All dimensions are in mm

2 MECHANICAL ADJUSTMENTS

FILT ANGLE



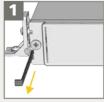




Typ. detection field dimensions (at 2 m with all spots activated):

0° = 100 cm (W) x 100 cm (D) 20° = 100 cm (W) x 120 cm (D)

USH BUTTONS



Without remote control, you can set two parameters using the push buttons:

PUSH BUTTON A: SENSITIVITY (1-4)

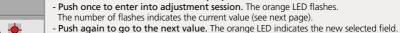
- Push once to enter into adjustment session. The red LED flashes.

The number of flashes indicates the current value (see next page).

- **Push again to increment the sensitivity**. The red LED indicates the new setting. When you reach value 4 and push again, the sensitivity skips to value 1 (rolling system).

- Push button B to close the session, once you have reached the required sensitivity value.

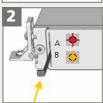
PUSH BUTTON B: DETECTION FIELD (1-9)



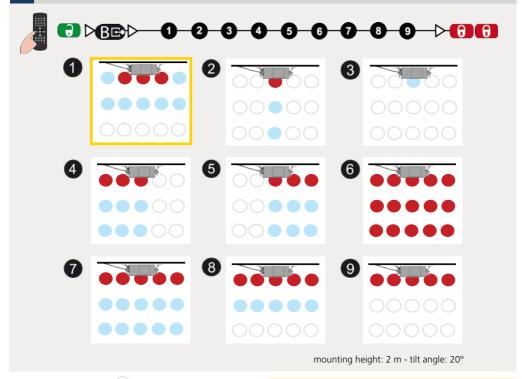
When you reach value 9 and push again, you will go back to value 1 (rolling system).

- Push button A to close the session, once you have reached the required sensitivity value.

If no button has been pushed for 1 minute, the adjustment session is automatically ended.



DETECTION FIELDS







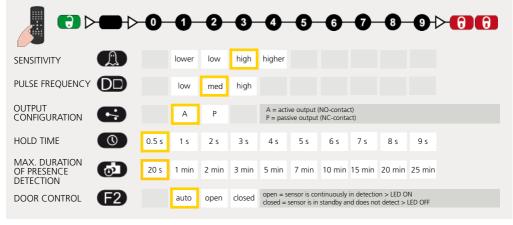
active spot - opening active spot - presence



TIP!

Use the Spotfinder to check the position of the activated IR-spots.

SETTINGS





FACTORY VALUES:

LAUNCHING SETUP:



TROUBLESHOOTING

	The sensor will not power up.	Faulty power supply.	1 Check power supply.
	The door opens and closes constantly.	The sensor is disturbed by the door motion or vibrations.	Increase the tilt angle of the sensor.Verify if the sensor ist fastened correctly.
	Two sensors in proximity to each other are disturbed.	The overlapping detection fields create interferences.	1 Choose a different pulse frequency for each sensor.
	The sensor does not respond to the remote control.	Batteries in the remote control are weak or installed improperly.	1 Check and change the batteries if necessary.
		Remote control badly pointed.	1 Point the remote control towards the sensor.
		The sensor is doing a setup.	1 Cut and restore power supply. Stand outside of the detection field until the setup is finished.
	The sensor does not unlock when the access code is entered.	Bad access code.	1 Cut and restore power supply. No code is required during the 1st minute after power on. Press on unlock + lock to save a new access code.
*	The red LED flashes quickly.	The sensor goes into security mode after a faulty internal test.	1 Replace sensor.

ACCESS CODE

The access code (1 to 4 digits) is recommended to set sensors installed close to each other.

SAVING AN ACCESS CODE:

DELETING AN ACCESS CODE:



Once you have saved an access code, you always need to enter this code to unlock the sensor. If you forget the access code, **cut and restore the power supply**. During 1 minute, you can access the sensor without introducing any access code.



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.





BEA hereby declares that the RS-15 is in conformity with the basic requirements and the other relevant provisions of the directives EMC 2014/30/EU and RoHS 2 2011/65/EU.

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)