



Solaris

Detection / Infrared barriers

The solar-powered Solaris is a wireless high-performance infrared barrier for effective and invisible detection.

It works as follows:

1. A transmitter column (TX) of cells and a receiver column (RX) of cells are installed face-to-face over a maximum separation of 100 m.
2. The transmitter cells send pulsed infrared beams towards the receiver cells which transform them into electrical signals.
3. If the transmitted signal is lost (interrupted), an intrusion alarm is triggered via short wave radio signals to a centrally located radio receiver.

Features include:

- Simple face (SF) or double face (DF) columns
- Choice of column heights (up to 3 m)
- Cells are multiplexed and synchronized allowing multiple detection mode and high quantity of IR cells
- Tamper protection and status overview

- Anti-condensation and anti-ice caps protect IR beams
- Solar panels can be mounted overall for best power supply

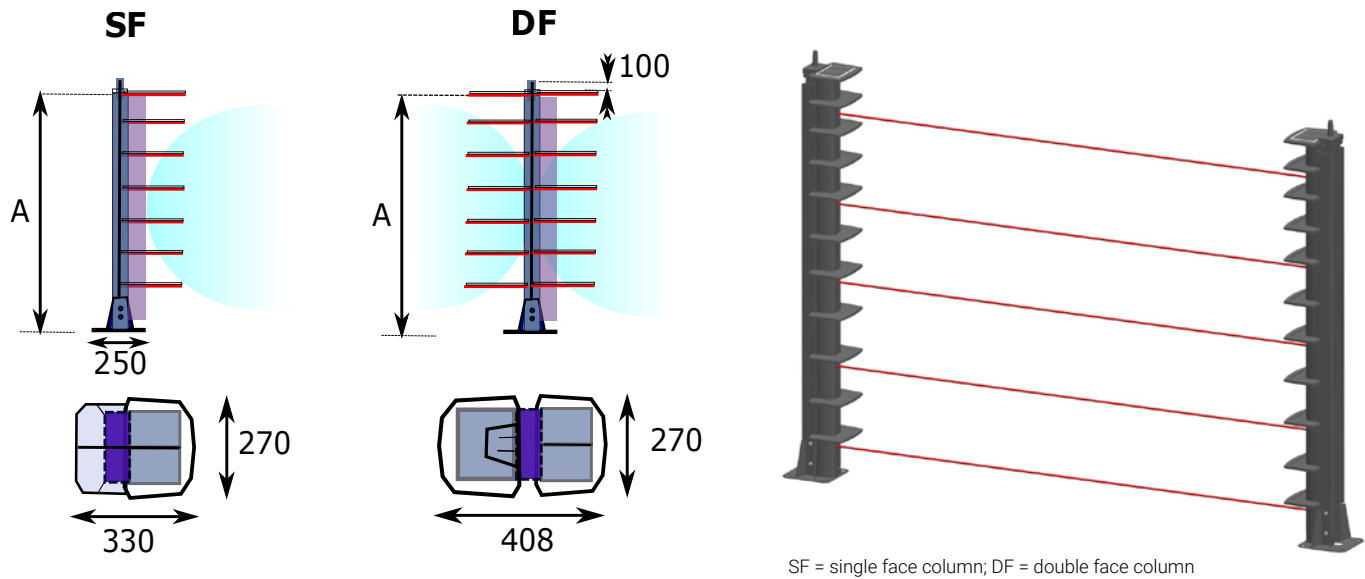
For multi-unit installations, connect the Solaris to a Maxibus universal hub to centralize and coordinate all alarm signals from a maximum 96 columns. Each Maxibus has:

- up to 136 relay outputs to integrate directly into an alarm panel
- the option of SMS integration via IP connection to partners such as Cortech, Gentec, Milestone and TIL
- a remote maintenance history log, real-time visualisation of alarms and configurations of device settings via a web server.

- **Highly effective infrared detection up to 100 metres**
- **Fully autonomous (solar powered and wireless)**
- **Guaranteed reliability in all weather conditions**
- **Multiplexing prevents interference**
- **Dynamic radio network (coded and unique protocol)**



Drawings (dimensions in mm)



Technical specifications

Column height (A)	Number of cells (beams)	Weight (kg)	
		SF	DF
1500	3 (6)	10.5	13
2000	5 (10)	13.3	16.7
2500	8 (16)	16.1	20
3000	10 (20)	22.3	25.9

Columns	
Alarm transfer output	Dynamic meshed radio network to radio coordinator
Data encryption	AES 256 bits
Radio frequency	869.725 – 869.975 MHz (5 channels with 50KHz width, 4 selectable)
Maximum beam range	100 m
Response time alarm	40 to 800 ms (configurable)
Cells per direction	3 to 10
Power supply	Solar panel (250 mA, 6 V) Battery (4 V, 5 Ah)
Protection level	IP44
Operating temp	-35 to +55°C
Relative humidity	95%

Radio transmitter	
Alarm outputs	RS485 (compatible with Maxibus)
Power supply	12 VDC

Certificates

- EMC directives 92/31/EEC, 2004/108/CE, 2006/95/CE
- Electromagnetic compatibility: EN 61000-6-3, EN 50130-4
- Electrical appliances IEC 60950-1
- EN 300220-2 (V2.1.2) Harmonised standards for short wave devices

Ordering information

Contact your local Heras office for precise ordering details.

Suggested accessories / products

- Maxibus universal hub
- Radio coordinator module (to connect the Maxibus to the Solaris)
- Concrete mounting blocks
- Wall mounts
- Remote solar panel kit