SMARTLANE

SPEEDGATES

AUTOMATIC SYSTEMS

Access controlled...
Future secured

SMARTLANE

The new SmartLane speedgate is built on the fundamentals that have made its predecessor so successful over the years. The iconic and easily recognisable style of the SmartLane has been updated to meet the latest architectural trends.

The **high performance and robustness** that are part of the SmartLane's DNA have naturally been retained and improved. Its mechanisation and box have been redesigned and offer an almost limitless life with the equipment showing no less than 10 million MCBF. Equipped with 12mm thick tempered glass obstacles and a height of up to 2000mm, this extremely robust structure allows, depending on the chosen configuration, a free passage of 600mm or 900mm for disability or service access.

Thanks to DIRAS™ (Automatic Systems Infrared Detection) technology and its predictive algorithms, SmartLane offers the **best-in-class detection level** currently on the market. The lower cells also provide better detection with greater gate reactiveness.

SmartLane is also the **best-in-class for safety**, with features including entrapment safety protection via a curtain of cross cells and extra detection on the high glass doors; coupled by low level cells for child and trolley detection. SmartLane also comes with impact force control and, by default, includes the future evolution of 'impact force' standards in line with the newest EN17352 norms, making SmartLane compliant for years to come.

The next generation SmartLane also incorporates **dynamic lighting technology** with its highly intuitive and design-oriented LED signals guiding users through the accessibility of the lanes for optimal user experience.

Along with Automatic Systems other pedestrian products, the SmartLane is offered with a built-in direct and secure **connection to the SmartTouch and Smart&Slim** remote monitoring and supervision terminals, WebAPP-ready for future connectivity.

Finally, SmartLane is **eco-friendly**, as with any of Automatic Systems product range, with almost 90% recyclable materials and low consumption for a **reduced Total Cost of Ownership** (TCO) and faster Return of Investment (ROI) over its lifetime.

SmartLane is available in **multiple finishes and configurations** including "with or without" extensions and "open or closed", allowing the integration of all types of identification systems. Several finish options are available including stainless steel, painted stainless steel, bronze or gold finish, all designed to cater for different architectural design trends.

SmartLane™

STYLISH & ARCHITECTURAL TRENDS

ERGONOMIC USER EXPERIENCE

MODULARITY & CUSTOMISATION

QUALITY OF BUILD, RELIABILITY & SERVICE

INNOVATIVE TECHNOLOGIES

SECURITY

SAFETY

PASSAGE FLOW

CONNECTIVITY

MARKETS

The SmartLane security access lane is particularly suitable for securing entrances to offices, banks, public institutions, data centres, sensitive sites, schools and universities.

AUTOMATIC SYSTEMS' QUALITY OF BUILT

SmartLane is designed and manufactured by Automatic Systems highly skilled team and benefits from their 50 years' experience working with access control equipment. The components, materials and suppliers are selected with care guaranteeing the robustness and reliability that has given Automatic Systems their renowned reputation for decades, worldwide.

FEATURES

DYNAMIC LIGHTS

Facelift design, on familiar look, with dynamic lights

Dynamic lights for intuitive use and increased throughput

- LED orientation pictograms
  - Green > In service
  - Red > Unauthorised Access
- LED functional pictograms
  - White > Initialization
  - Blue > Idle, ready to badge in
  - Green > Access authorised
  - Red > Access refused

FLOW

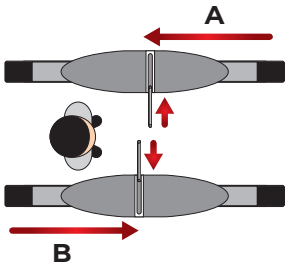
High throughput: up to 60 users/minute (depending on the access control system)

Double retractable doors for fast opening of obstacles

- Opening/closing time min 0.7 sec. for standard or wide passageway lane

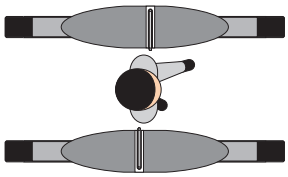
Audio alarm to indicate unauthorised use to both the security personnel and the user. Different alarms depending on the type of offense.

POWERED OFF EQUIPMENT



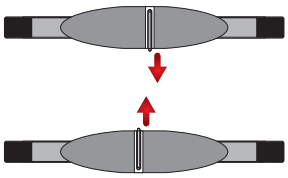
In case of a power outage obstacles unlocked and automatically open.

* With optional electro-magnets obstacles are held tight in the open position so as not to interfere with the evacuation process.

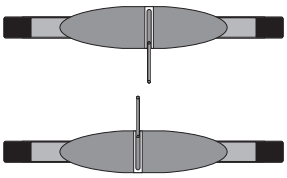


Users can quickly and safely evacuate the building.

LIVE EQUIPMENT



When power returns equipment returns to prior operating mode.



Obstacles in closed position.

SAFETY

Designed in compliance with the most stringent safety and security standards (EN16005) & CE certified

Intrinsically safe design

- Designed to prevent finger entrapment and other impacts. Already compliant with the future EN17352 European standard for impact forces
- DIRAS detection profile now available on the fixed glazing found at the top of the housing
- 200mm ground clearance to respect anytime foot entrapment

Limited force applied by obstacles

- Protective profile on the mobile glazing

Dynamic, electronic user protection based on traffic direction

- Reinforced detection to enhance user protection and manage passage of luggage (option)

FAILSAFE

- Mechanical failsafe opening (no battery required): obstacles automatically open to free the passage
- Audio and visual alarms to signal evacuation in progress
- If combined with a fire alarm system, when a fire alarm occurs, and when a power outage occurs

SECURITY

PHYSICAL SECURITY

Obstacles act as deterrent without compromising on security

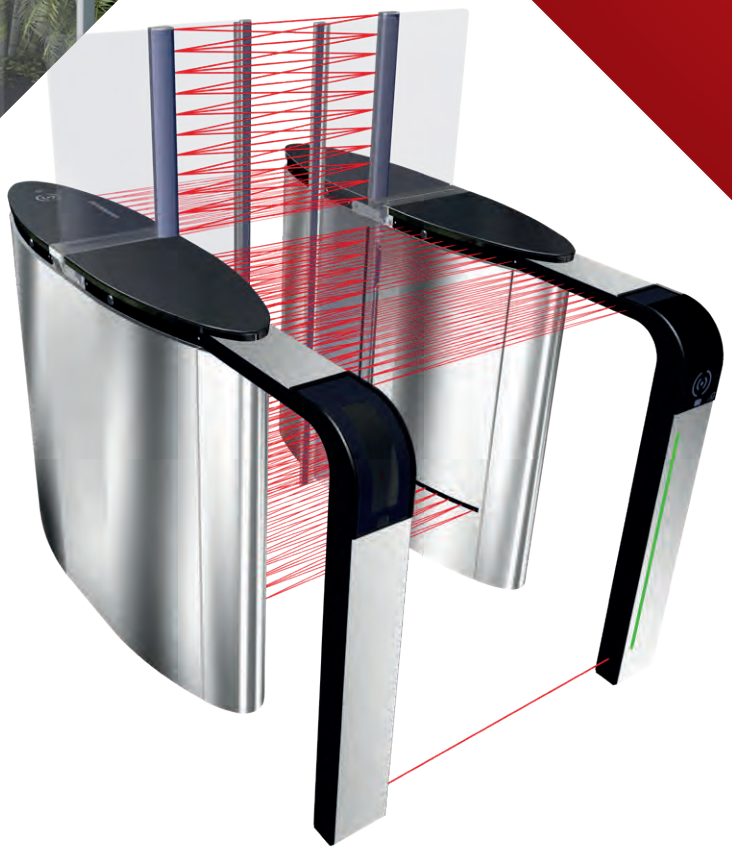
- Fast double retractable doors for immediate lane closure
  - Opening/closing time min 0.7 sec for standard or wide passageway lane
- Waist-height 1000mm tempered mobile glass obstacles to block unauthorised access
  - 1200mm / 1500mm / 1700mm / 1800mm / 1900mm / 2000mm as an option
- Crank-and-rod linkage ensuring perfect mechanical locking in both extreme positions
- Intrinsic mechanical device for automatic opening of the mobile leaves in the event of a power failure
- Obstacles may be programmed to close more slowly in the event of a fraud attempt combined with a user's presence in the safety zone
- Audio and visual signals to indicate unauthorised usage to both security personnel and users

DIRAS

- **Standard detection in housing:** 30 beams
- **Standard vertical safety:** 30 beams
- **Detection in 2 optional extensions:** 30 beams
- **Optional trolley detection:** 30 beams
- **Safety detection on optional fixed glazings:** 15 beams

UP TO
60
per minute
with
“hands free”
proximity reader

RFID & QRcode reader integration



FRAUD DETECTION

SmartLane evolution from punctual cells to DIRAS V3

- DIRAS V3 with new detection algorithms
- Straight DIRAS and new curved DIRAS for improved detection

SmartLane detection is based on infrared cells positioned horizontally (waist-high positioning) and vertically (obstacle positioning)

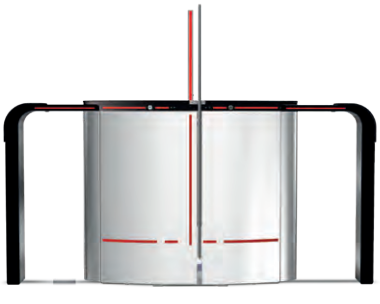
9 DIRAS sensor bands with a total of 135 direct infrared photo beams

Free opening cell on extension

- Anticipation of the obstacle opening by 0.4sec

A combination of elevated computing power and a high-density matrix of IR beams guarantees dynamic and predictive user tracking.

- Ability to track the user’s passage in the lane from entry to exit point
- Filtering of anything that may cause interference, obstruct or fall into the lane passage and which is not a security threat (arm movements, hand luggage)



FINISHINGS

SmartLane speedgate is a highly versatile and customisable product designed to meet customer needs, whether these are of a functional or an aesthetic nature. The wide range of materials and finishings available make the SmartLane speedgate suitable for any kind of building, be it ancient or contemporary.

HOUSING

SmartLane speegate housing is very robust (IK09* impact resistance) and can be customable according to the client requirements. We offer a large choice of colours and finishings:

- Stainless steel housing for an intensive use.
- Painted housing to meet all colour requirements.
- PVD (Physical Vapor Deposition) coated housing** for matt look and decorative finishes with superior hardness and wear resistance and minimal environmental impact.
- Embossed housing** for a modern and sophisticated design.

* IK07 impact resistance with glass top cover and extention option
** Options available end of 2021

STAINLESS STEEL

PAINTED STAINLESS STEEL

RAL9005
JET BLACK

RAL9010
PURE WHITE

RAL7016
ANTHRACITE
GREY

RAL5008
GREY BLUE

RAL6014
YELLOW OLIVE

RAL7003
MOSS GREY

PVD

GOLD

BRONZE

BLACK

EMBOSSED

CAMBRIDGE

LINEN

2WL

TOP COVER

As the top covers of the equipment are the components most susceptible to wear and tear over time we have designed the covers in different materials so that they can withstand intensive use, while meeting the aesthetic requirements for our customers. The following three options are available:

1. Glass for a modern and sophisticated design
2. Black laminated for easy integration of access control systems
3. Stainless steel for an intensive use

CONNECTIVITY

CONNECTIVITY / INTEGRATION

The AS1190 control board offers powerful computing power for advanced lane management.

- Equipped with the powerful ARM9 technology
- Based on the open source, reliable and scalable LINUX PC architecture
- Featuring complete IP and USB connectivity
- Maintenance interface accessible remotely thanks to an embedded web server:
  - Real time lane status
  - Complete, functional configuration
  - Evolved diagnostic and maintenance tool
  - Intuitive man-machine interface accessible via a simple web browser from any local or remote computer

SUPERVISION

- Smart & Slim monitoring panel for remote management of the speedgates. It is a flexible command centre and allows for visualisation, control and consultation
- SmartTouch surveillance interface. Simple and elegant solution for managing one or two access control equipment areas remotely, via an Ethernet network
- SmartTouch allows counting of incoming and outgoing people in a controlled area and thanks to the HDMI output, it is possible to show the occupancy level of an area on screens

SmartTouch
supervision panel

MODULARITY

SmartLane is available in multiple configurations, including extension options, open or closed one-way or double. These extensions offer more detection beams for a higher security, and allow larger integration capabilities when closed. SmartLane SL2910 model provides a larger passage width of 900mm for easier access of disabled persons or even maintenance carts. Smartlane comes with a variety of glass obstacle height options, from 1000mm up to 2000mm, for increased security.

SL 2900 & SL 2910

STANDARD AND LARGE PASSAGE

OPEN EXTENSION

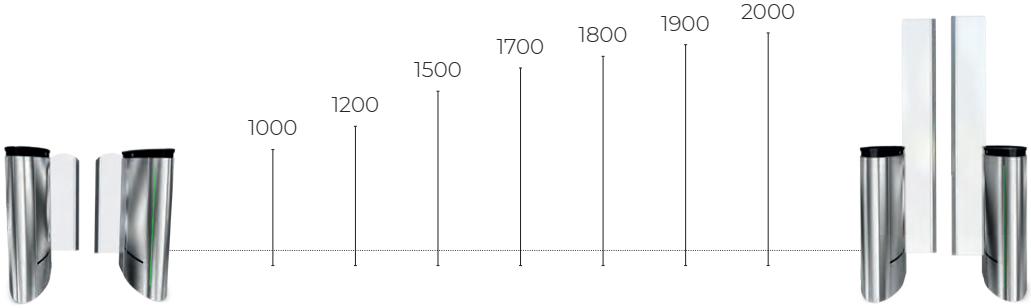
DOUBLE OPEN EXTENSION

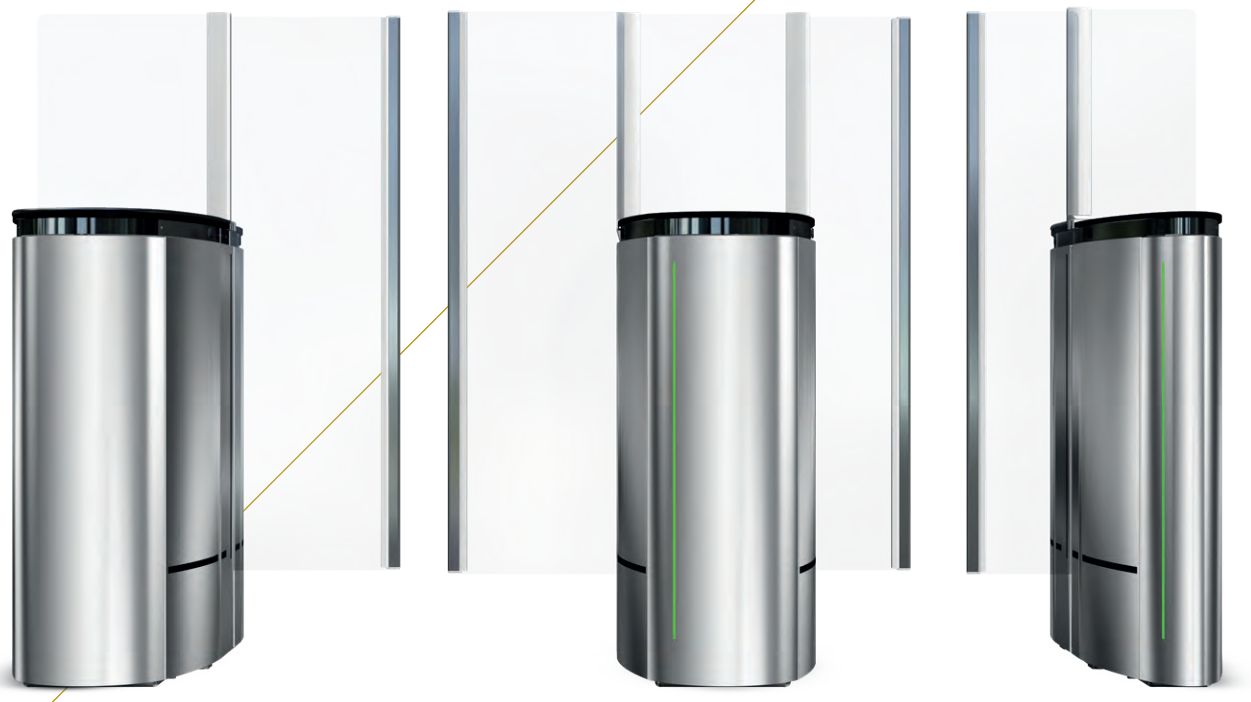
CLOSED EXTENSION

DOUBLE CLOSED EXTENSION

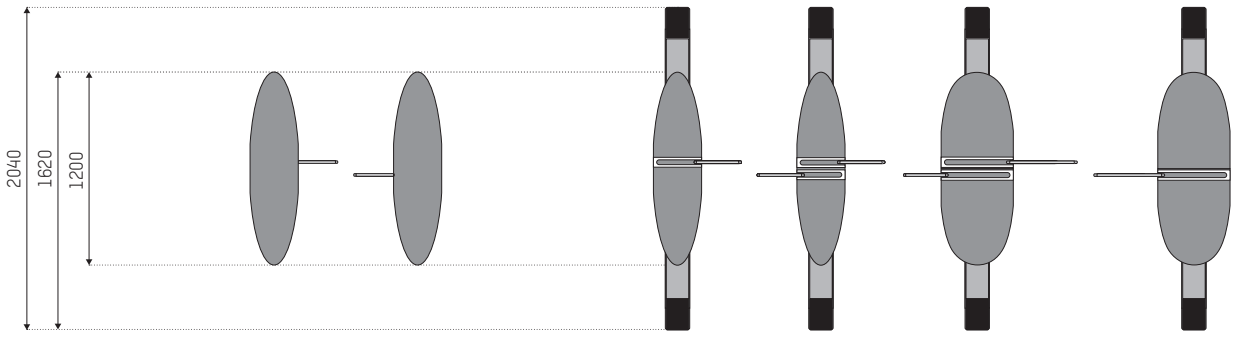
LOW TO HIGH GLASS OBSTACLES

- Obstacle height: 1000mm. Optional: 1200 / 1500 / 1700 / 1800 / 1900 / 2000mm



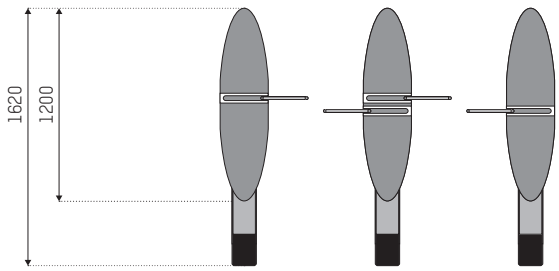


COMBINATIONS

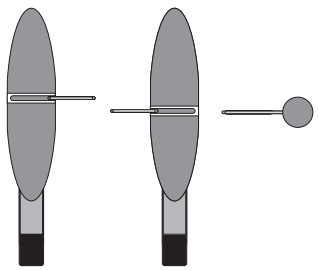


SL 2900

SL 2900 & SL 2910 DOUBLE OPEN EXTENSION



SL 2900 OPEN EXTENSION



SL 2900 OPEN EXTENSION
& ACCESSLANE

TECHNICAL SPECIFICATIONS

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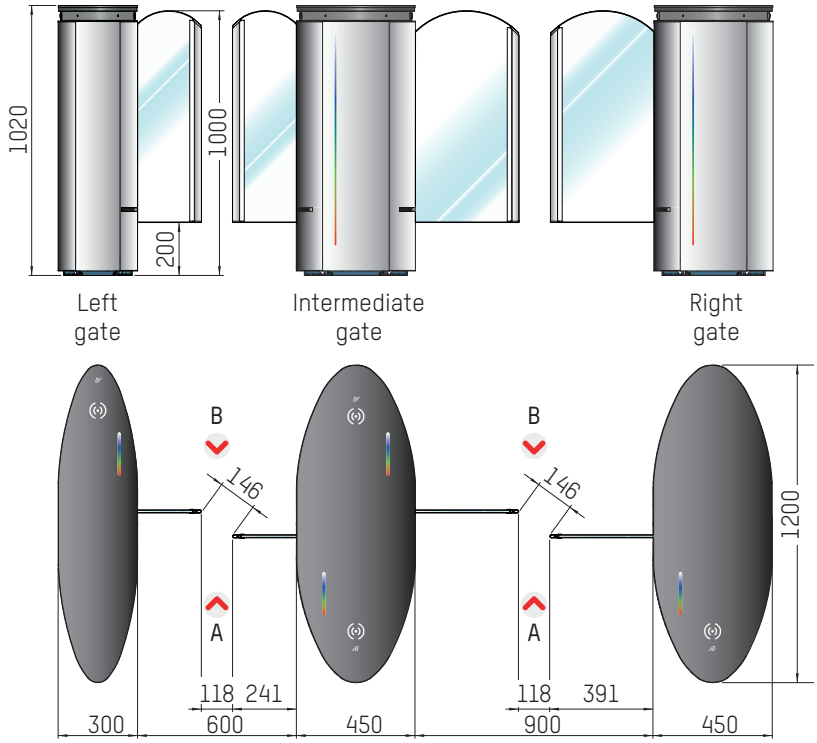
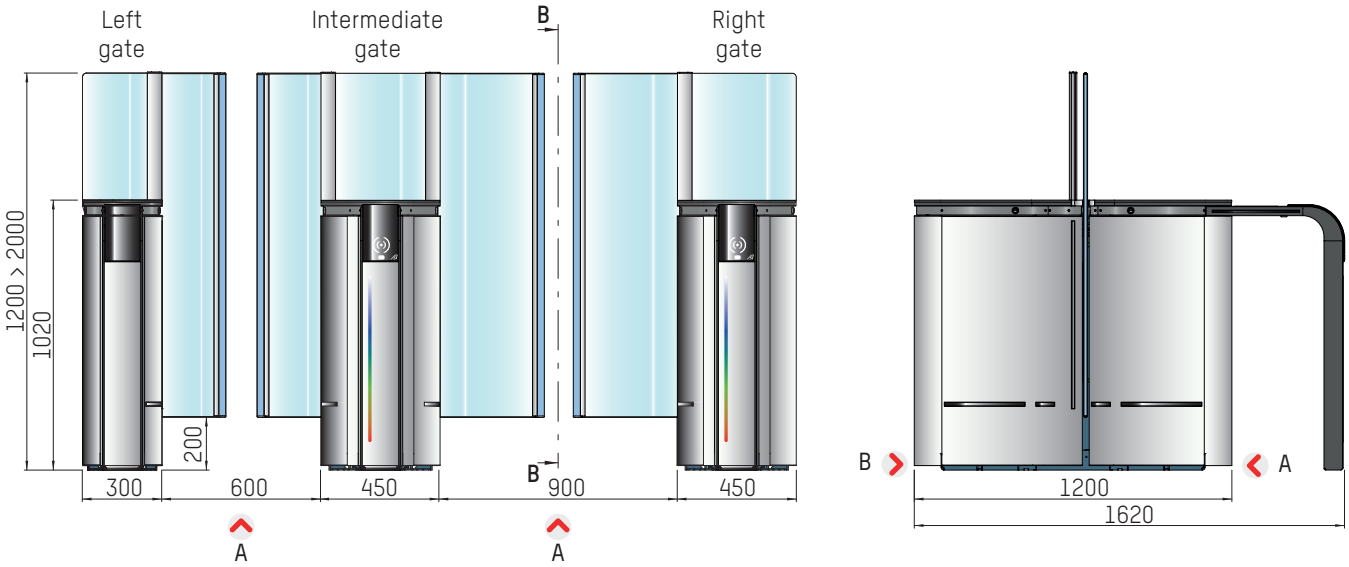
Power supply [1]	Single-phase 230 VAC + ground, 50/60 Hz.
Motor	Three-phase asynchronous 0.12 kW
Nominal consumption	250 W / lane, peak = 9 A.
Ambient operating temperature	0 to +50°C
Ambient relative humidity in operation	< 95%, without condensation
Passage width	600 mm / 900 mm
Operating time [2]	Opening/closing time: 0.7 sec
MCBF	10.000.000 mean cycles between failures, with recommended maintenance [3]
IP	40
Housing robustness	Up to IK09 [4] (EN/IEC 62262)
CE	Conforms to CE standards.

1. Do not connect to a floating network or to high impedance earthed industrial distribution network.
2. Minimum movement times, configurable. These times do not take into account the reaction of the access control system. The passage request memory function makes it possible to accelerate the flow: no closing between 2 requests.
3. Maintenance operations are detailed in the technical manuals.
4. IK09 impact resistance with black laminated or stainless steel top cover. IK07 with glass top cover and extension option.

DIMENSIONS


1020
1000
200
Left gate
Intermediate gate
Right gate
B
146
A
1200
118
241
300
600
450
391
900


Left gate
Intermediate gate
Right gate
B
1200 > 2000
1020
200
300
600
450
900
A
1200
1620

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AUTOMATIC SYSTEMS

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