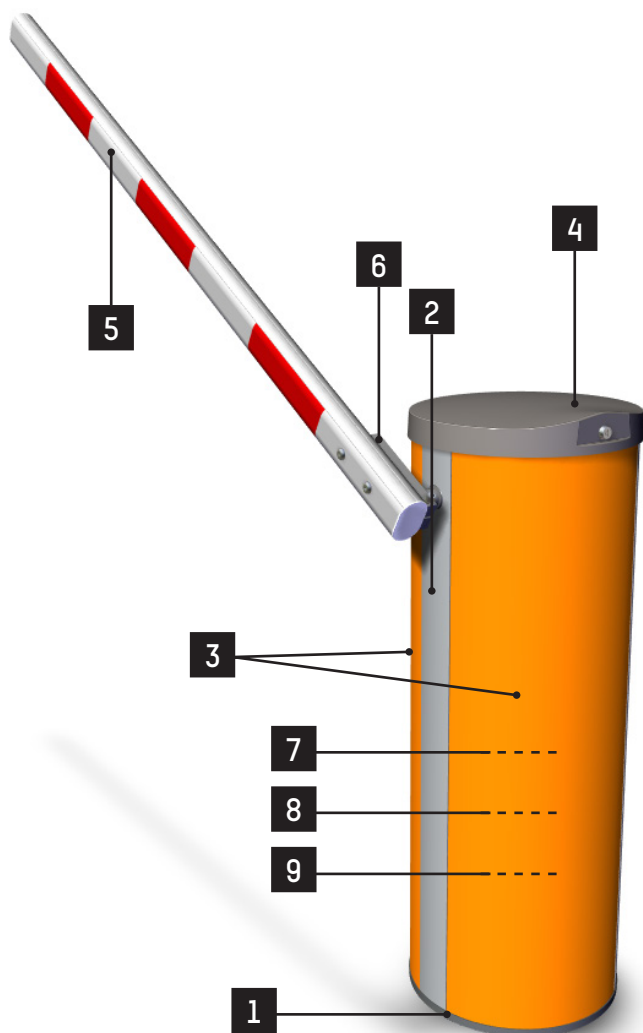


BL 15

Datasheet

Rev. 10 • Update 09/2022



Combining speed, ease of use and reliability, the **BL 15** is the rising barrier designed for the access control of public environment.

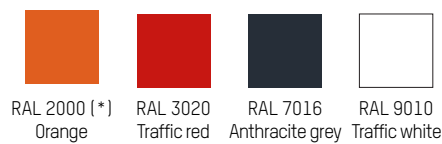
Its attractive price and manufacturing quality make it an efficient and economical product.

STANDARD EQUIPEMENT

1. Aluminum cast sole plate.
2. Anodized aluminum frame.
3. Lacquered aluminum housing panels (selection of 5 colors). «Qualicoat» lacquering providing an excellent protection against corrosion.
4. Aluminum cast hood, locked by key.
5. Oval aluminum arm of section 80 x 54 mm, lacquered white (RAL 9010) with red reflective strips.
6. Drive shaft, diameter 30 mm, fitted on a geared motor and a lifetime lubricated bearing.
7. Automatic opening in case of power failure (AVR).
8. Electromechanical assembly including:
 - Reversible three-phase asynchronous gear motor, ensuring protection of the mechanism in case of forced lifting of the arm due to fraudulent action. Maintaining the arm in its 2 extreme positions (open and closed), is achieved by the frequency converter.
 - Frequency converter ensuring progressive accelerations and dampened decelerations, for movement without vibrations, reversal of direction without jolts (reopening) and increased protection of the mechanism.
 - Electronic limitation of the electromechanical assembly torque allowing immediate stopping of the arm during closing in case of an obstacle
 - Analog position sensor indicating the high and low positions and allowing control of the gear motor.
 - Balancing of the arm by means of a compensating spring, according to the weight of the arm.
9. Varnished electronic control board offering inputs, outputs and relays adjustable:
 - Adjustable opening and closing speed.
 - Arm position status (open or closed).
 - Swing-off arm sensor.
 - Technical fault information report.
 - Human/Machine interface to change or adjust the electronic control board parameters.
 - HTML interface via Ethernet connector.
 - Socket for presence detector (2 loops).



STANDARD RAL COLORS



RAL 2000 (*) Orange RAL 3020 Traffic red RAL 7016 Anthracite grey RAL 9010 Traffic white

(*) Standard color. All other colors must be specified when ordering.

Note: These RAL references are available for free.

STANDARD TECHNICAL CHARACTERISTICS

Power supply	Single phased 230 VAC - 50/60 Hz + ground. ⁽¹⁾
Consumption ⁽²⁾	During motion: 150W max. At rest: 44W ⁽²⁾
Motor	Three-phased 230V/90W
Useful arm length (L)	From 2 to 4m, increments of 0,5m
Minimum opening/closing time	Adjustable between 1,2 and 4,7 sec. according to 3 profiles: 1. Standard ⁽³⁾ 2. Intermediate ⁽⁴⁾ 3. Maximum ⁽⁵⁾
Ambient operating temperature	Between -10 and +60°C.
Relative ambient humidity	95% max, without condensation.
MCBF (Mean Cycle Between Failure)	2,500,000 cycles, in compliance with recommended maintenance
Net weight	50 kg (without arm) Arm: from 1,6 to 3,2 kg max.
IP rating	IP55
CE	Conform to European standards.

(1) Do not connect to an isolated ground network or a high impedance earthed industrial network.

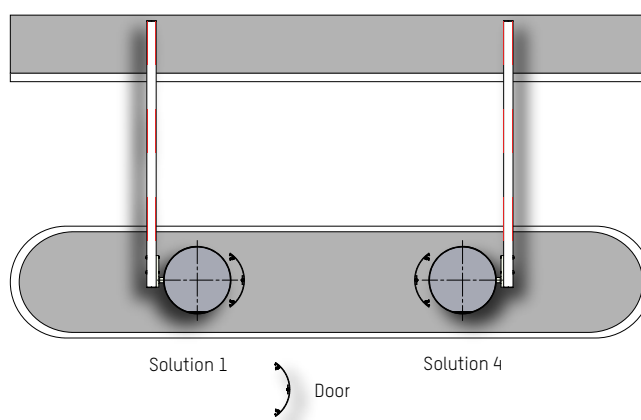
(2) Depending of options.

(3) Standard speed - Impact force in accordance with EN 12453.

(4) Intermediate speed - Impact force in accordance with EN 12453 by adding a foam protection under the arm..

(5) Maximum speed - The installer must ensure that the installation complies with the standard, e.g. with dead man's operation.

CONFIGURATION



WORK TO BE PROVIDED BY THE CUSTOMER

- Adapted ground fastening.
- Power supply.
- Wiring towards eventual external peripherals.

Note: Follow the installation plan.

OPTIONAL

ARMS

- Articulated oval arm.
- Back oval arm swing-off + swung-off arm detection.
- Foam protection under the aluminium arm.
- Rubber protection profile.
- Electromechanical holding arm position in case of power failure (SR).

TIP SUPPORT

- Height adjustable tip support.
- Electromagnetic tip support - Ø80mm or Ø84mm arm.
- Electrolocked tip support

SECURITY & SAFETY

- Opening protection of both cover & door - Information by a dry contact.

CONTROL & COMMAND

- Push button box - 2 buttons (opening / closing).
- Push button box - 2 push buttons + 1 switch (3 positions).⁽⁶⁾
- Key switch on the housing.⁽⁷⁾
- Radio transmitter - 2 channels.
- Radio receiver - 2 channels + antenna.
- Radio transmitter - 4 channels.
- Radio receiver - 4 channels + antenna.
- Inductive loop for vehicle detection.
- Presence sensor on rail - Single channel
- Presence sensor on rail - Double channel
- Photo-electric cell - Transmitter / Receiver.
- Photo-electric cell - Reflex.
- Support post for photo-electric cell (H = 0.7m) .
- Cell mounting - Transmitter + Receiver or Reflex.
- Ultrasonic detector with protective cover included.⁽⁸⁾
- Human Machine Interface colour screen with keypad for AS1620 logic board (AS1621).
- Ethernet interface (AS1622).
- SD memory card for AS1620 Ethernet board - Industrial grade.
- Input / output (I/O) extension card for AS1620 logic board (AS1623).
- PLA1301 - Electronic board for input / output + Presence sensor connector.
- Totalling counter (number of vehicle operations).
- Totalling counter with resetting.
- Counter / Count down (parking : in - out = total).
- Laser sensor - On separate post.
- Laser sensor - fixed on barrier housing .
- Remote control for laser sensor.
- Reference point for laser sensor fixed on post.
- Reference point for laser sensor fixed on tip support.
- Integration kit for ANPR camera Survision Nanopak with 24V DC power supply (camera not included) Assembly carried out by AS if the camera is supplied by the customer.

SIGNALISATION

- Function pictogram - Integrated in the cover (Red ⇔ closed / Green ⇔ open).
- LEDs on arm - Per pair (Flashing lights (red) when closed).
- LED flashing light on the covert.⁽⁹⁾
- LED flashing light with grid on the top cover.⁽⁹⁾
- Traffic lights (Ø 100mm) - Red/green LEDs - Supply.
- Traffic lights (Ø 200mm) - Red/green LEDs - Supply.
- Traffic lights (Ø 200mm) - Orange LEDs - Supply.
- Support post (H = 2.7m) for traffic lights - Supply.
- Wall bracket for traffic lights (Ø 100mm).
- Acoustic alarm 100dB (internal mounting) during the barrier closing movement.
- Aluminium composite traffic sign (Ø 300mm).

AESTHETIC

- Painted in another RAL colour.
- Customer logo.
- Raised base.⁽¹⁰⁾

POWER SUPPLY

- Power supply 120V - 50/60Hz.

ENVIRONMENT

- Thermostatic heating - Heating for operation until -45°C.

Note: For restrictions on options, please contact us.

(6) Opening/Closing + switch for Automatic or Manual mode.

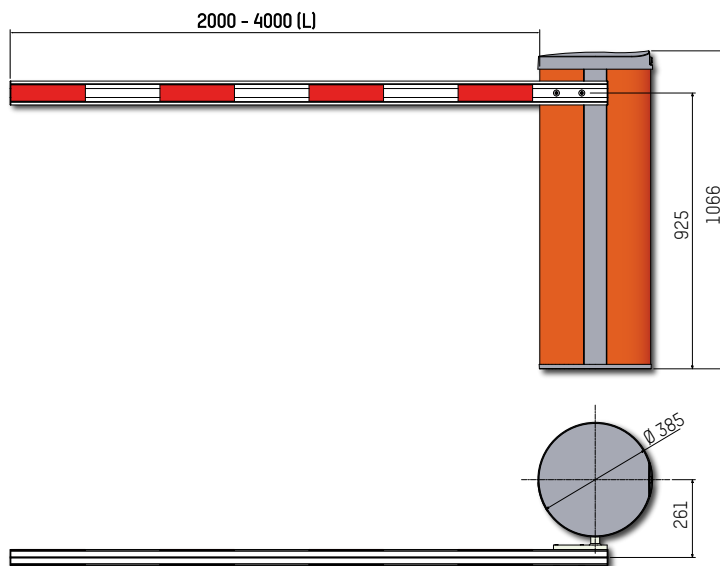
(7) Automatic / Locked open / Locked closed.

(8) Not considered as a safety device if used alone.

(9) Flashing during opening/closing movement and in open position - Off in closed position.

(10) 30mm-thick in black plastics for BL1X or 60mm-thick in RAL 9005 painted steel for BL2X.

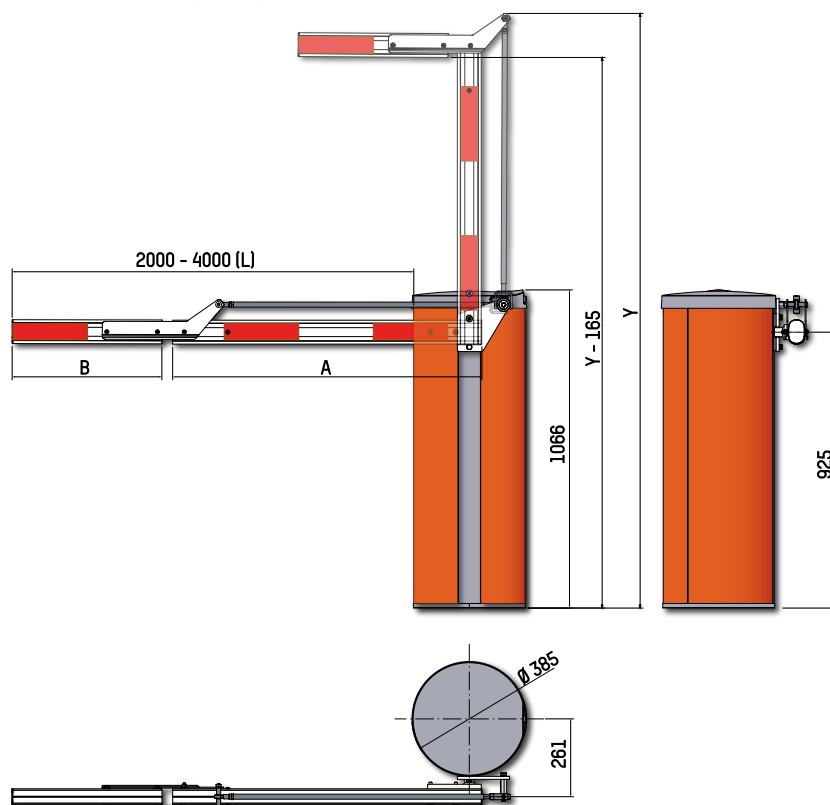
STANDARD DIMENSIONS (mm)



STANDARD DIMENSIONS WITH ARTICULATED OVAL ARM (mm)

USEFUL LENGTH (L)	B				
	2000	1327	1127	927	727
2500	1827	1627	1427	1227	
3000	2327	2127	1927	1727	
3500	2827	2627	2427	2227	
4000	3327	3127	2927	2727	
DRIVING* (A)	839	1039	1239	1439	
Y	1800	2000	2200	2400	

* + 46 mm for swing-off arm



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