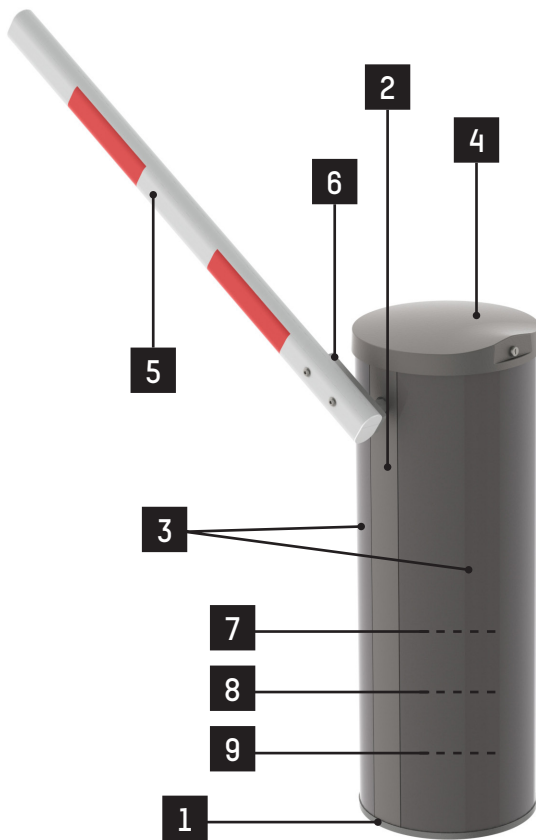


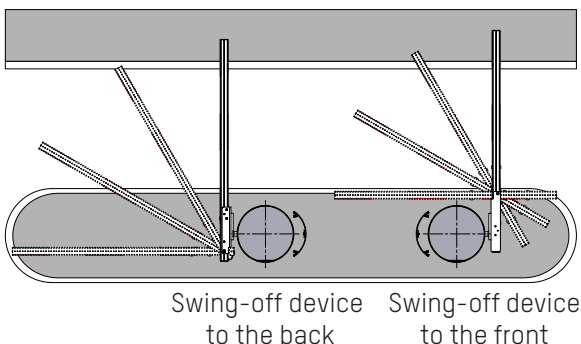
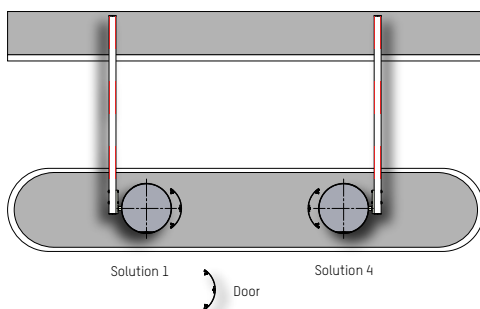
BL 15 Toll Datasheet

Rev. 02 • Update 01/2020



The **BL15 Toll** barriers are rising barriers for toll applications, for manual toll collection (*MTC version*) with moderate traffic flow and also for a lane closing (*LC version*).

CONVENTIONS




DESCRIPTION

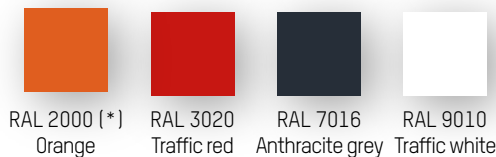
1. Aluminium cast sole plate.
2. Anodized aluminium frame.
3. Laquered aluminium housing panels (*selection of 4 colors*). "Qualicoat" laquering providing an excellent protection against corrosion.
4. Aluminium cast hood, locked by key.
5. Oval aluminium arm of section 80 x 54 mm, laquered white (*RAL 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, 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 restriction of the electromechanical assembly torque allowing immediate stopping of the boom during closing, if an obstacle is detected.
 - 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 by dipswitches, potentiometers, push button and leds.
 - HTML interface via Ethernet connector.



STANDARD TECHNICAL CHARACTERISTICS

Electrical power supply	Single-phase 230 VAC - 50/60 Hz + ground. <i>Note: not to be connected to an isolated ground network or a high impedance earthed industrial network</i>
Consumption	During motion: 150W max. At rest: 44 W <i>(Depending of options)</i>
Motor	Three-phased 230 V/90 W
Free passage (L)	2 à 4 m, increments of 0.5 m
Opening time	Adjustable between 1,2 et 3 s. <i>(Allowing the passage of 1500 véhicules/h)</i>
Operating temperature	Between -20 and +60°C
Relative humidity	95% max, without condensation
MCBF	Mean cycles between failures - 2.500.000, when respecting recommended maintenance
Weight	50 kg <i>(without arm)</i> Arm: 1.6 to 3.2 kg max
IP	55
	Conforms to European standards

STANDARD RAL COLORS



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

Note: These RAL references are available for free.

WORKS TO BE PROVIDED BY THE CUSTOMER

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

Note: Respect the installation drawing.

OPTIONAL

1. Back oval arm swing-off - Arm swing-off detection device included.
2. Front oval arm swing-off - Arm swing-off detection device included.
3. Carbon Protecta® arm.
4. Polystyrene protection for aluminum arm *(protection on 50 cm)* at the extremity of the arm.
5. Electromechanical holding arm position in case of power failure *(SR)*.
6. Hood & door intrusion information *(dry contact)*.
7. Rubber protection profile.
8. Push button box - 2 buttons *(opening / closing)*.
9. Push button box - 2 push buttons + 1 switch *(3 positions)*.
10. 3 positions switch mounting inside the housing.
11. Key switch on housing - Automatic / locked open / locked closed.
12. Inductive loop for vehicles detection.
13. Presence detector for inductive loop.
14. Photo-electric cell for safety closing.
15. Cell support post for 1 cell.
16. Mounting of the cell on the barrier.
17. Ultrasonic detector under arm - Protective cover included.
18. Color screen and HMI interface with keyboard to communicate with the logic board.
19. Ethernet interface.
20. SD Memory board for Ethernet module.
21. Extension board for extra inputs, outputs
22. Electronic board for input / output + DP connector.
23. Totalling counter *(without or with resetting)*.
24. Counter
25. Operation pictogram - inside the hood. *(red, green & orange)*
26. Leds on arm.
27. Leds traffic lights only - Red/green *(Ø 100 or Ø 200 mm)*.
28. Supporting post for traffic lights.
29. Leds traffic lights *(Ø 200)* - Red/green + Acoustic and visual alarm - Fixed on barrier.
30. Aluminum composite traffic sign *(Ø 300)*
31. Non standard RAL color.
32. Customer LOGO.
33. Raised base.
34. Power supply 120 V 50/60 Hz.
35. Thermostatic heating - Heating for operation until -45°C.

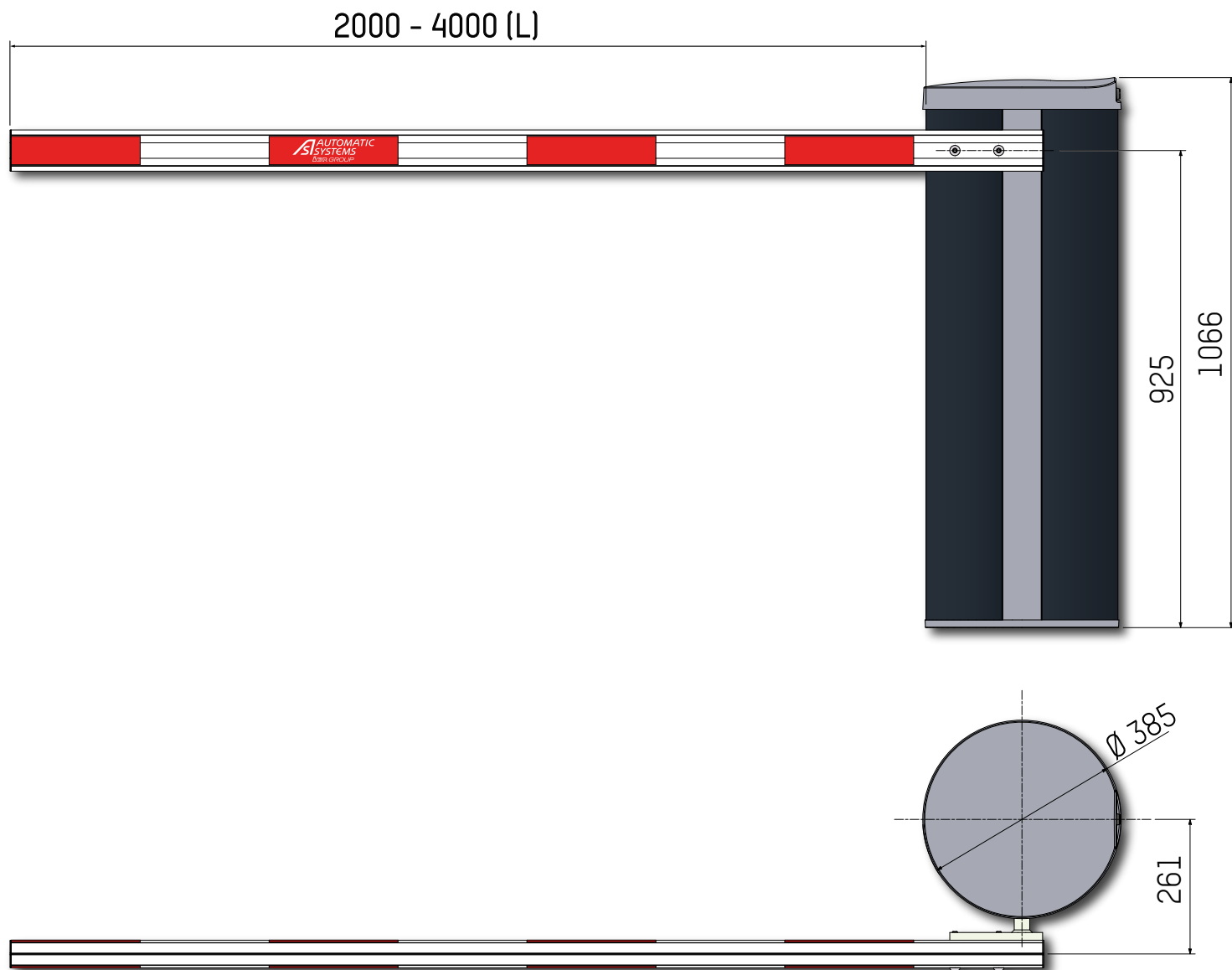
BL 15 Toll

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STANDARD DIMENSIONS (MM)



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