



# FORCE 825K/I

24Vdc electromechanical bollard, powder coating steel or electropolished stainless steel AISI316 finish



**MADE  
IN ITALY**



9343156 **FORCE 825K**

Ø 254 mm • H800 mm • → 10/11,2 mm



PROTECTION

9343158 **FORCE 825KI**

24 Vdc electromechanical bollard with powder coating or AISI 316 electropolished stainless steel finish.

FORCE 825K/I has been subjected to crash test according to the specifications of IWA14-1: 2013 standard. The test was performed by MIRA Limited Warwickshire, CV10 0TU United Kingdom.

FORCE 825K/I successfully passed the test conducted with a vehicle with a mass of 2500kg launched at a speed of 65Km/h, with an impact energy of 411 KJ.

**FORCE 825K/I was assessed as having Product Classification C-Foundation/Active/Rising/Bollard and achieved a Performance Rating of IWA14-1:2013 Rising Bollard V/2500[N16]/64/90:5.0.**

## FORCE

## 825K/I

POWER SUPPLY	230 Vac 50/60 Hz
MOTOR SUPPLY	24 Vdc
ABSORBED POWER	90 W
ABSORBED CURRENT 24Vdc	8 A
STANBY CONSUMPTION	11 W
CONSUMPTION DURING RISING	1,4 A
MAXIMUM WORKING FREQUENCY*	600 cycles/day
PROTECTION LEVEL	IP 68
OPERATING TEMPERATURE	-20 °C / +50 °C
LUBRICATION	Grease
IMPACT RESISTANCE	---
BREKOUT RESISTANCE	411.000 J
KG VEHICLE-KM/HOUR	2.500-65
RAISING TIME 120mm/sec	10"
LOWERING TIME 160mm/sec	9"
ELECTRIC BRAKE	5N
WEIGHT (without foundation case)	195/207 kg

[\*] The maximum frequency of use indicated in the above table must be understood as indicative data, referred to a single bollard connected to a control panel, at standard temperature rating (20°C, 50% humidity). In the case of unfavorable conditions the frequency of use has to be reduced.

## FEATURES

- High number of cycles and low power consumption.
- Ability to operate even in the event of a power failure thanks to the central group with UPS
- Fast and easy to install thanks to the foundation box easily assembled without welding
- Equipped with RS485 communication bus and Ethernet connection via TCP / IP
- Integrated encoder and amperometric obstacle detection
- Equipped with anti-vandal function, which allows to detect a forced command, to rearm the bollard and activate an alarm



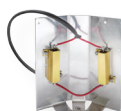
**PLUG&PLAY**  
Connection  
between  
bollard and  
control panel



**EN124 (40T) Top**  
equipped with  
LED lights

## TECHNICAL DRAWING

**RES**  
[9679001]



Heating resistance  
for cold areas  
(accessory supplied  
pre-assembled).

**BUZZ**  
[9534040]



Warning buzzer  
(accessory supplied  
pre-assembled).

**KTTOOLS**  
[9089010]



Set of installation  
tools.

**CA825K**  
[9150009]



Foundation box with  
rebar structure  
for FORCE825K/I.

**TOP25**  
[9261010]



Cover for foundation  
box CA825K.

**C05/10/15/20/25**  
[9171005 / 006 /  
007 / 008 / 009]



Cable with connector  
L= 5/10/15/20/25 m.



# FORCE 825K/I

Control panels and components for a basic installation\*



**MADE  
IN ITALY**

**CP1S** 9176148

**CP2S** 9176149

**CP1SK** 9176155

**CP2SK** 9176156

## FEATURES

- Power supply: 230/250 Vac - 50/60 Hz - transformer with selectable voltage
- Equipped with command ALL UP / ALL DOWN
- 8 control inputs / 4 control inputs for loop detectors / 2 static outputs 24 V
- 8-Dip switch programmable for different configurations
- Diagnostic LED
- Connection to Ethernet network via TCP / IP LAN
- Communication between the central bollard and central CP by means of the RS485 communication bus
- CP1SK, CP2SK versions with batteries for automatic operation during power failure
- Embedded electronics for the management of two traffic lights (no need CP.TL control board for traffic lights)
- 6 different configurations for loop detectors
- Prepared for any kind of command

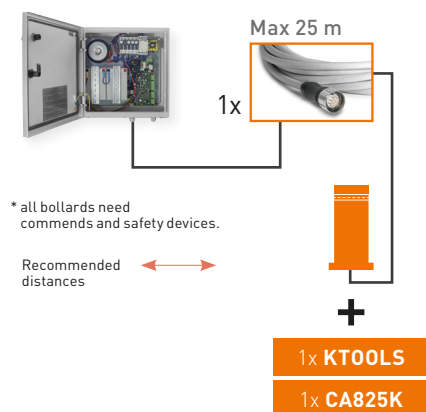


1 FORCE 825K/I

2 FORCE 825K/I

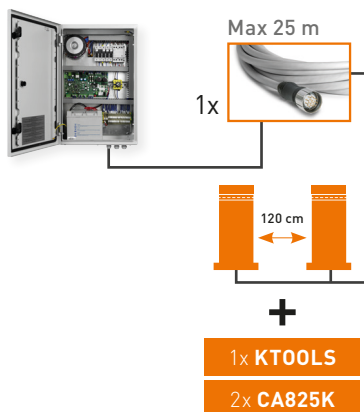
### 1 FORCE 825K/I

CP1S | CP1SK



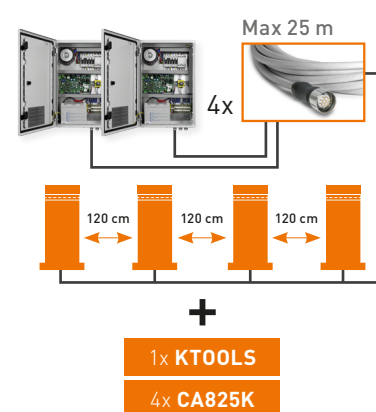
### 2 FORCE 825K/I

CP2S | CP2SK

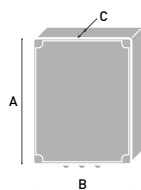


### 4 FORCE 825K/I

CP2S | CP2SK



## ESQUEMA TÉCNICO



	A (cm)	B (cm)	C (cm)	IP GRADE
<b>CP1S</b>	30	40	15	IP 66
<b>CP2S</b>	50	40	20	IP 66
<b>CP1SK</b>	40	40	20	IP 66
<b>CP2SK</b>	60	40	20	IP 66

