

## VELOCITY NITRO / AUTOMATIC VEHICLE BARRIER WITH SWIFTDRIVE®



STATE-OF-THE-ART  
LITHIUM BATTERY BACKUP



- Benefit from the reliability of the latest SwiftDrive® technology
- High speed operation with low power consumption
- Integrated OPTIC LED light strip for maximum visibility, safety and aesthetics
- True battery backup UPS power supply
- Break-away barrier arm system
- Compact cabinet design
- Counter balance springs
- Articulated arm kit with break-away feature
- 100% duty cycle
- Unlimited number of daily operations
- Patent pending design

### APPLICATIONS

- Suited for applications requiring high volume access and medium levels of security
- Used extensively in applications such as parkades, shopping malls, residential estates, office parks, toll gates, factories, warehouses and mines

### DESIGNED FOR

- Interior and exterior installations
- Severe operating conditions

### AVAILABLE CONFIGURATIONS

- With 3m, 3.5m, 4m, 4.5m, 5m, 5.5m and 6m octagonal barrier arm
- Articulated arm kit for low ceilings



# UNIQUE FEATURES OF THE VELOCITY NITRO VEHICLE BARRIER

## RELIABLE TECHNOLOGY

- 100% duty cycle – suitable for high volume applications
- SwiftDrive® brushless DC motor with planetary gearbox
  - High speed operation (adjustable raise and lower speed settings)
  - Seamless precise speed control with dynamic braking and slow stop
  - Intelligent collision detection and mid cycle auto-reverse
  - Highly reliable, highly efficient and high power-to-volume ratio 100W motor
  - Large torque output over a vast speed range
  - Brushed DC motors are limited to a 10 000 hour life span (+/- 500 000 operations) as the brushes are always in contact with the rotor shaft, unlike brushless DC motors which do not have any brushes and do not have that limitation)
  - No worm gear which is prone to severe wear
  - No proximity sensors or microswitches required for positioning

## DURABLE FEATURES

- Embedded microcontroller
- Relay can be added for open output. Limit switch can be added for closed output.
- 6A power supply – barrier is run from the power supply, not battery driven as batteries can become exhausted over time
- Lithium-ion battery backup
- Can operate with a solar powered system
- Slim, low profile cabinet (272mm x 256mm)
- Adjustable springs for barrier arm balancing
- Easy change of handing
- Wireway through centre of shaft for LED light strip
- Harmonic motion drive arm mechanism
- Mechanical locking in the lowered position
- Effortless mechanical override for manual operation
- Sturdy octagonal barrier arm with integrated LED light strip, diffuser and red reflective tape
- Break-away barrier arm system
- Available in powder coated mild steel and 3Cr12 stainless steel, brushed 304 and 316 grade stainless steel

## GUARANTEED MANUFACTURED TO LAST

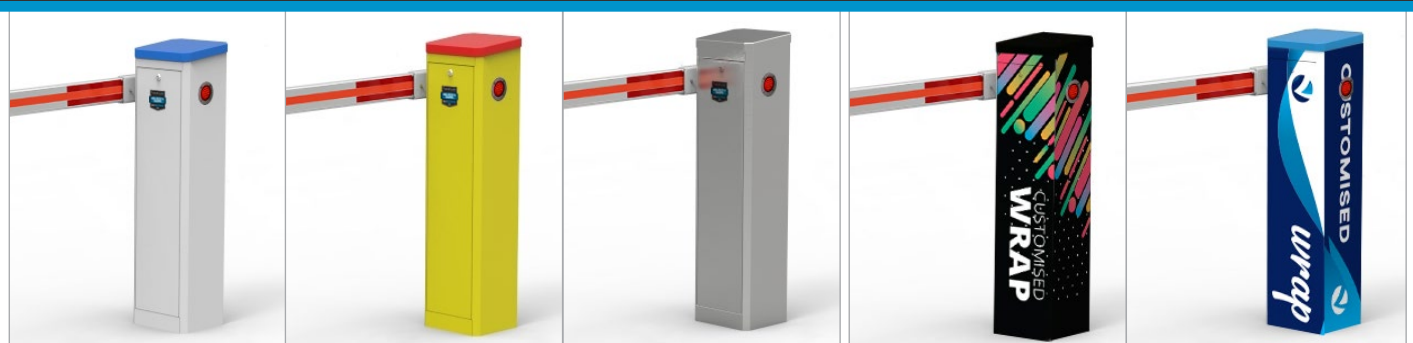
- 24 month guarantee



# TECHNICAL SPECIFICATIONS

INPUT VOLTAGE	100V – 240V AC ±10% at 50Hz / 60Hz			
DRIVE	SwiftDrive®			
MOTOR DETAIL	BLDC, 24V DC, 100W			
GEARBOX	Planetary			
MOTOR POWER SUPPLY	24V DC, 6A, 140W			
DUTY CYCLE	100% - rated for continuous non-stop operation		MCBF - 10 million operations	
BARRIER ARM LENGTH	3m, 3.5m, 4m, 4.5m, 5m, 5.5m and 6m			
OPENING SPEED	3m - 1.2 seconds	4m - 2 seconds	5m - 2.5 seconds	6m - 3 seconds
CABINET WEIGHT	45kg			
BARRIER ARM DETAIL	86mm x 43mm, 1.5mm wall thickness, powder coated white aluminium with red reflective tape and integrated RGB LED			
BARRIER ARM WEIGHT	1.45kg per metre			
MANUAL OVERRIDE	Insert tool to reverse locked state			
OPERATING TEMPERATURE	-15°C to +60°C			
POWER FAILURE OPERATION	Battery backup lithium-ion UPS power supply seamless changeover			
COLLISION DETECTION	Motor embedded hall sensors			
SAFETY CONTROL	Input for any external sensor such as loop detector or radar			
SYSTEMS INTEGRATION	<ul style="list-style-type: none"> <li>Integrates with all access control, ticketing and time &amp; attendance systems</li> <li>Triggered through a normally open dry contact</li> </ul>			
RELAY OUTPUTS	Relay can be added for open output. Limit switch can be added for closed output			
CABINET FINISH	<ul style="list-style-type: none"> <li>Mild steel with UV resistant exterior grade powder coat</li> <li>3Cr12 stainless steel with UV resistant exterior grade powder coat ∞ *</li> <li>304 grade brushed stainless steel</li> <li>316 grade brushed stainless steel *</li> </ul> <p>∞ A variety of colours are available on request * Suitable for corrosive environments</p>			

## COLOUR EXAMPLES



WHITE / BLUE

YELLOW / RED

STAINLESS STEEL

WRAPPED FINISH

CUSTOMISED WITH YOUR BRANDING



FULL RAL COLOUR RANGE IS AVAILABLE

# ACCESSORIES

## SAFETY

- Radar detector - non-invasive
- Dual channel loop detector
- Infrared beam transmitter and receiver kit (10m range)

## OPTIONAL EXTRAS

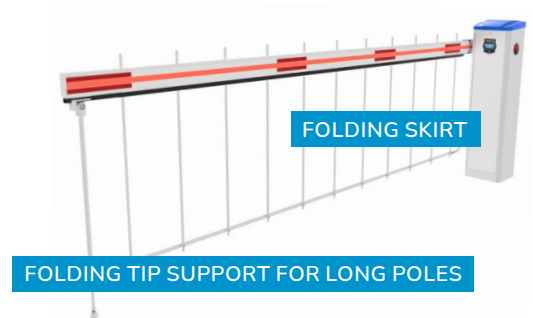
- High security Mul-T-Lock for the barrier door
- Traffic light (LED type)
- Flashing/Solid courtesy light fitted on cabinet (activated when barrier is in use)
- Single or double pushbutton in plastic housing
- One button or three button remote control transmitter and receiver
- Card drop box (intelligent and unintelligent types)
- Reader and camera mounting boxes (special designs to customer specifications)
- Car and car / truck goosenecks with optional weather cowls

## BARRIER ARM ACCESSORIES

- Cable-type articulated arm kit (folding arm kit) for low ceilings, with breakaway feature
- Underarm-type articulated arm kit (folding arm kit) for low ceilings with a PVC protective sleeve
- Folding skirt
- Folding tip support for long poles

## BARRIER ARM EXTRA

- Extended arm holder for high wind environments
- Arm joiner for easy shipping
- Barrier arm monitoring limit switch (to alert control room if the barrier arm has been dislodged)

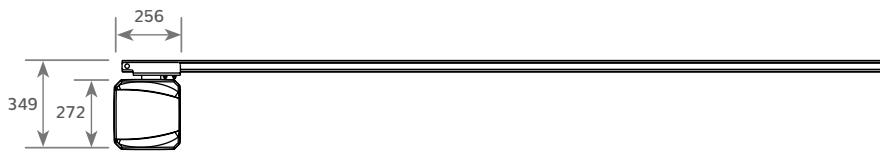


FOLDING TIP SUPPORT FOR LONG POLES



# VELOCITY NITRO VEHICLE BARRIER RANGE

## STANDARD BARRIER



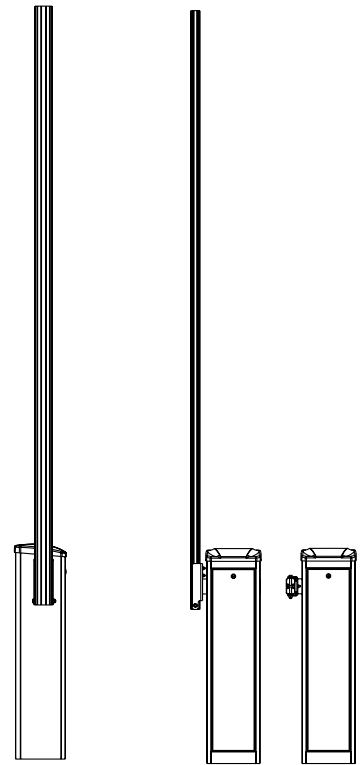
LEFT HANDED



RIGHT HANDED (FACTORY STANDARD)



FRONT



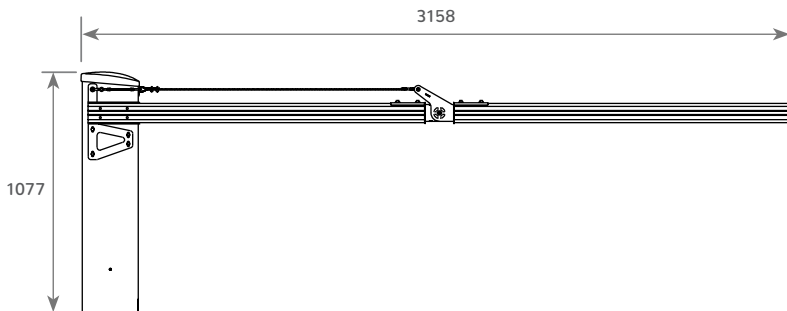
FRONT OPEN

SIDE OPEN & CLOSED

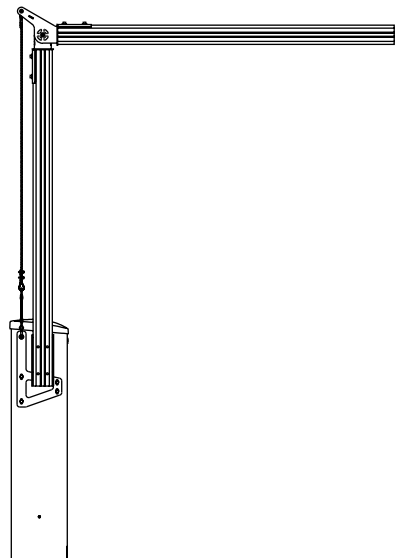
## CABLE-TYPE ARTICULATED ARM KIT (FOLDING ARM KIT) FOR LOW CEILINGS, WITH BREAKAWAY FEATURE



TOP

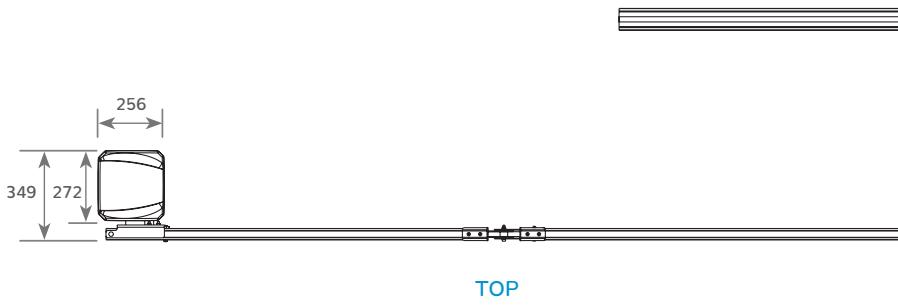


FRONT

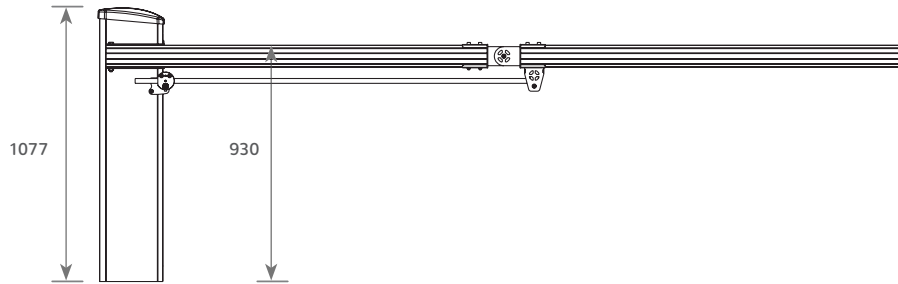


FRONT OPEN

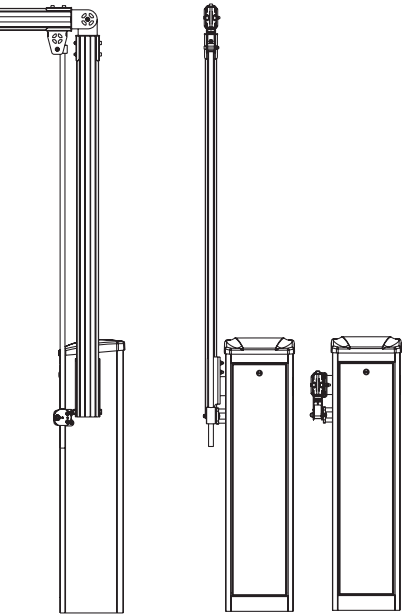
UNDERARM-TYPE ARTICULATED ARM KIT (FOLDING ARM KIT) FOR LOW CEILINGS WITH PVC PROTECTIVE SLEEVE



TOP

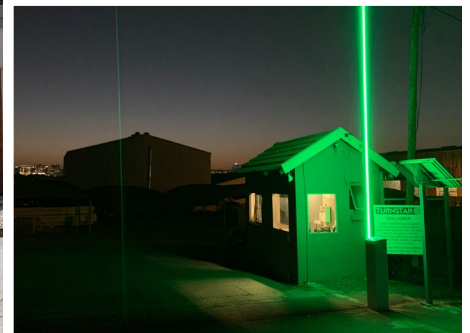


FRONT



FRONT OPEN

SIDE OPEN & CLOSED



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**JOHANNESBURG**  
HEAD OFFICE AND FACTORY  
☎ +27 (0)11 786 1633

**WESTERN CAPE**  
BRANCH  
☎ +27 (0)21 981 3043  
📠 +27 (0)82 417 7408

**KWAZULU NATAL**  
BRANCH  
☎ +27 (0)32 947 0391  
📠 +27 (0)76 589 3410

**BOLTON, UNITED KINGDOM**  
BRANCH  
☎ +44 (0)161 706 1760  
📠 +44 (0)7938 684 484