

**RESOLUTION AUTHORIZING CONTRACT MODIFICATION 2023-01 TO OPERATIONS MANAGEMENT INTERNATIONAL/JACOBS**

**MOTIONED BY:**  
**SECONDED BY:**

**WHEREAS**, the North Hudson Sewerage Authority (hereinafter "Authority") is a public body, duly formed under the Sewerage Authorities law, constituting Chapter 138 of the Laws of New Jersey of 1946, as amended (Chapter 14A of Title 40 of the New Jersey Statutes Annotated) and possesses the powers set forth therein; and

**WHEREAS**, the Authority has contracted with Operations Management International, Inc., Denver, CO. in the amount of \$8,216,474.00 for the operation, maintenance and management of the Authority's sewerage collection and treatment facilities pursuant to the provisions of the Wastewater Treatment Privatization Act, N.J.S.A. 58:27-1 et seq; and

**WHEREAS**, Operations Management International, Inc., has submitted a proposal(Exhibit "A") for additional compensation in the amount of \$297,175.77 related to the Adams Street Plant Operations; and

**WHEREAS**, the Facilities Review Board has reviewed the proposal and recommends the approval of the requested contract.

**NOW, THEREFORE, BE IT RESOLVED** that the Authority hereby authorizes the execution and implementation of said contract modification 2023-01 in the amount of \$297,175.77.

**DATED: MARCH 16, 2023**

**RECORD OF COMMISSIONERS' VOTE**

**YES                      NO                      ABSENT**

- Commissioner Kappock
- Commissioner Marotta
- Commissioner Gardiner
- Commissioner Friedrich
- Commissioner Guzman
- Commissioner Velazquez
- Commissioner Barrera
- Commissioner Zucconi
- Commissioner Assadourian

**THIS IS TO CERTIFY THAT THIS RESOLUTION WAS DULY ADOPTED BY THE NORTH HUDSON BOARD OF COMMISSIONERS ON MARCH 16, 2023.**

\_\_\_\_\_  
**SECRETARY**



Operations & Maintenance  
NHSA Project  
1600 Adams Street  
Hoboken, NJ 07030  
T +1.201.795.1411  
F +1.201.420.6917  
www.jacobs.com

Mr. Fredric J. Pocci, P.E.  
Authority Engineer  
North Hudson Sewerage Authority  
1600 Adams Street  
Hoboken, New Jersey 07030

February 20, 2023

Subject: Proposed Out of Scope Project: OMI  
Adams Street Front Fence and Gate Replacement

Dear Mr. Pocci,

Operations Management International, Inc. (“JACOBS OMI”) is pleased to provide North Hudson Sewerage Authority (“Authority”) a proposal to replace and upgrade the front fence and gates located along the front property line of the Adams Street Facility in Hoboken, New Jersey.

**Overview:**

This proposal is for the upgrade and replacement of the existing fence and gates at the Adams Street Facility that run along the front property line of 16<sup>th</sup> Street. Replacing the fence and gates addresses some necessary repairs and bolsters security for the facility itself. Each set of automatic gates will also come equipped with magnetic locking mechanisms to ensure the facility is properly secured, along with upgraded actuators that work seamlessly with our existing access control system.

We suggest replacing the existing fence and gates with the Ameristar Impasse II security fencing system. This style provides increased protection along with aesthetic appeal. The existing fence will be demolished one section at a time while the new fence and gates are installed.

There are four areas where the contractor will install new fence and gates:

1. Area number one is the location furthest west of the facility, referred to as the “Bone Yard.” At this location, the subcontractor will install two new manual swing gates.
2. Area number two is east of the Solids Building. This upgrade addresses the fence line along the main administrative parking lot along the Rain Garden, and the primary entrance to the facility, which is an automatic double swing gate.
3. Area number three is the space between the Admin Building and the Preliminary Treatment Building, which requires replacement of the manual swing gate.



4. Area number four is the location east of the Preliminary Treatment Building. Here the contractor will install the remaining fence along with a new sliding gate, which will connect adjacent to the PSEG property line. This style fence merges seamlessly with connecting property fence structures.

#### **Scope of Services and Specifics:**

Jacobs OMI will facilitate the work utilizing Security Fence Systems (SFS) to procure and install approximately 320 feet of fence, the automatic east and west gates that provide main access to the facility, and the two sets of the manual swing gates at the Bone Yard and the space between the Admin Building and Preliminary Treatment Building (PFB). SFS will perform the demo, removal, and installation of the upgraded fencing. All areas of the rigid fence will be eight feet high, and all fence posts and supporting beams will be set in concrete footings 12" x 36 – 42", spaced 8 feet apart. All holes will be dug out by hand.

The manual swing gates at the Bone Yard and the space between the Admin Building and PFB will be replaced with manual double swing gates eight feet high.

The main west gate entrance will be replaced with double swing gates eight feet high by 20 feet wide. The new gate will have upgraded hydraulic operators, new loop detectors and photocells for safety, and a magnetic locking mechanism to ensure the gates close tightly. The new gate controller also relays information back through the access system to indicate open/close which is controlled from the security desk with the existing Visionis application.

The main east gate will be replaced with a rolling slide gate eight feet high by 20 feet wide. The upgrade replaces the gate operator, loop detectors, and photocells for safety, and includes a magnetic locking mechanism to secure the entrance. Like the west gate, the east gate controller will relay information back through the access system to indicate gate position, which is controlled from the security desk with the existing Visionis application.

The upgraded gates, magnetic locking mechanisms, and actuators will require new wiring and connection with the existing access control system. Our Jacobs Regional Electrician will complete this portion of the work since they are familiar with the existing wiring and set up of the access control devices to ensure it works properly after the installation. Time and materials will be budgeted for their time to disable the existing system while the installation takes place, and for the reconnection of the access system to the new gate controllers and safety mechanisms.

Demolition of the existing fence and gates will occur section by section. At the end of each workday, SFS will install temporary fencing to ensure the site always remains secure.

#### **Schedule:**

The fencing, gates, and electrical components have a 10-week lead time. We expect work to begin in two to three months from approval. Work will begin at the East gate and then move along the property line to the west side of the facility.



**Cost:**

Jacobs OMI’s proposed cost estimate for the project is \$297,175.77 (Two Hundred Ninety-Seven Thousand One Hundred Seventy-Five Dollars and Seventy-Seven cents). This amount is based on the estimated direct costs and includes 15% markup to cover general and administrative costs, overhead, and profit. Jacobs OMI will invoice on a lump sum basis upon completion of the project.

We followed the Jacobs procurement process by requesting quotes from three fencing installation companies: J Fletcher Creamer, C&S Fencing, and Security Fence Systems. Security Fence Systems was the only responsive contractor to move forward with Jacobs processes. Their initial quote was approximately \$3,000 more than the lowest bidder, but less than the third contractor. The other two bidders provided initial quotes but failed to respond to follow up site visits.

The out-of-scope project costs are in addition to the Agreement’s base fee and any other Agreement budget amounts.

<b>PROJECT COSTS - SUMMARY TABLE</b>		<b>COST (\$)</b>
<b>1</b>	Security Fence - Complete Fence and Gate Installation	\$ 248,750.00
<b>2</b>	Additional Electrical Installation Materials	\$ 2,500.00
<b>3</b>	Jacobs Regional Support for Controller Installation	\$ 7,163.71
<b>4</b>	JACOBS OMI (15% OH&P)	\$ 38,762.06
<b>TOTAL COST</b>		<b>\$ 297,175.77</b>

**TOTAL ESTIMATED COST: \$ 297,175.77**

The proposal and pricing described above is valid for 60 days from the submission date. If you are in agreement with this letter, please provide NHSA Board approval in the form of a signed resolution. JACOBS OMI will proceed with the out-of-scope services in accordance with the above schedule.

Jacobs OMI appreciates the opportunity to provide these services. If you need additional information or have any questions regarding this letter, please feel free to contact me by phone at 201.795.1411 or by e-mail at [Mark.Berube@jacobs.com](mailto:Mark.Berube@jacobs.com).

Thank you for your consideration regarding this proposed out of scope project.





Regards,

A handwritten signature in black ink, appearing to read "M Berube".

Mark Berube  
Project Director

A handwritten signature in black ink, appearing to read "K Dahl".

Kevin Dahl  
Jacobs Regional Director

Cc: Richard Wolff, NHSA Executive Director  
Don Conger, NHSA Associate Engineer  
Kevin Dahl, Jacobs OM  
Phil Reeve, Jacobs OM

Attachments:  
Security Fence System Quote  
Fence, Gate and Mechanical Spec Sheets



# IMPASSE II<sup>®</sup>



## HIGH SECURITY STEEL PALISADE FENCING



FENCE PRODUCTS

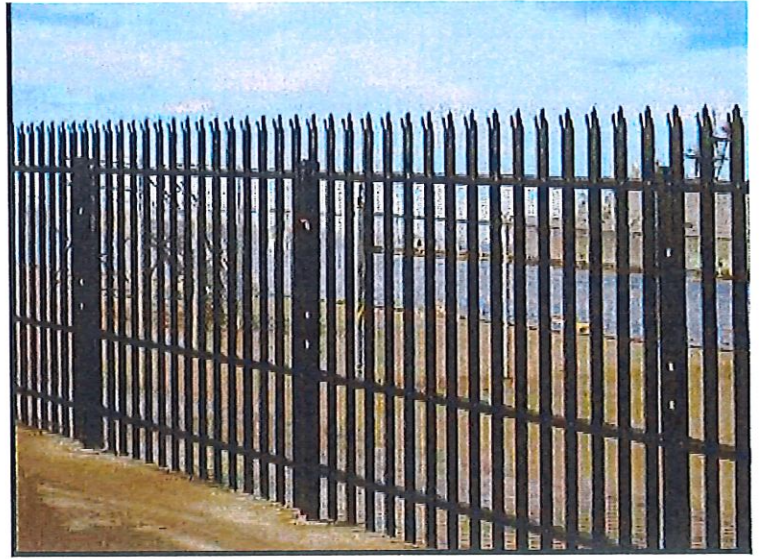
[AMERISTARFENCE.COM](http://AMERISTARFENCE.COM) | 800-321-8724

Experience a safer and more open world

AMERISTAR<sup>®</sup>

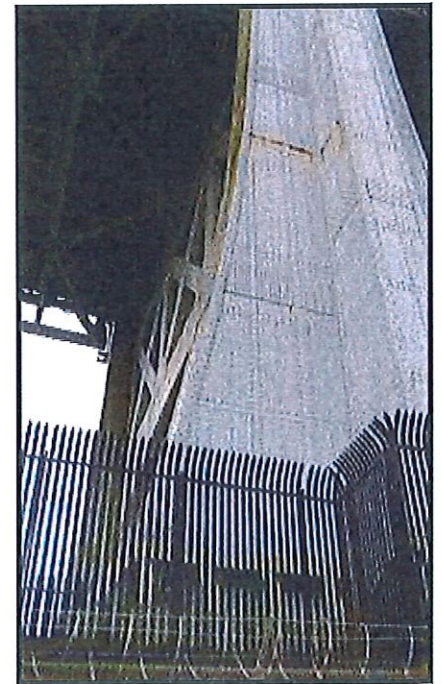
ASSA ABLOY





# AESTHETIC APPEAL. UNPARALLELED PROTECTION.

*Traditional security fences of chain link or wire mesh are no longer enough to meet today's increased security demands. Ameristar's Impasse II security fence offers the resistive strength of heavy-duty steel pales secured vertically to a framework of specially formed rails and I-beam posts. The stylish design of the Impasse II, combined with its strength and security, provides a successful first line of defense.*







---

*Primary applications for Impasse II ornamental steel fence systems include:*

---

- ▶ *Military Sites*
- ▶ *Government Facilities*
- ▶ *Petroleum & Chemical Facilities*
- ▶ *Power Plants & Substations*
- ▶ *Airports*
- ▶ *Data Centers*
- ▶ *Ports of Entry*
- ▶ *Water Treatment & Storage*



# IMPASSE II<sup>®</sup>

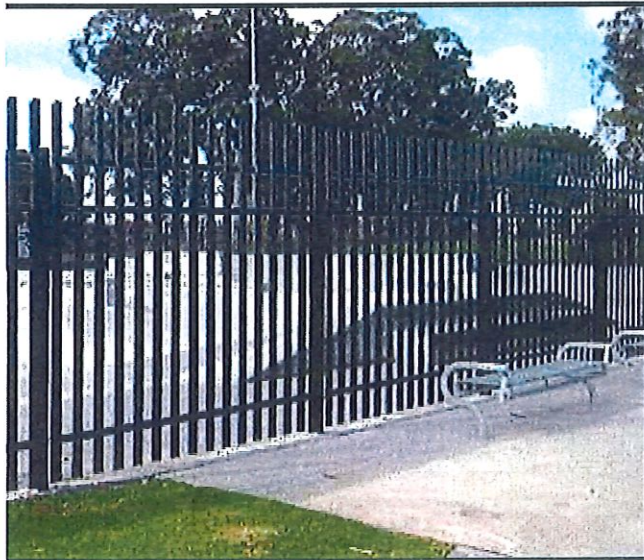
## HIGH SECURITY STEEL PALISADE FENCE



### TRIDENT<sup>™</sup>

The Impasse Trident *pale* rises above the topmost rail and terminates with a menacing triple-pointed splayed spear tip. The intimidating look of the Trident corrugated pale is a *visual deterrent* to any who would dare to intrude.

- 3-RAIL PANELS | 6', 7', 8', 9' & 10' HEIGHTS
- 2-RAIL PANELS | 6', 7' & 8' HEIGHTS



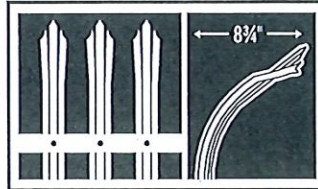
### STRONGHOLD<sup>™</sup>

The blunt, slightly rounded tip of the Stronghold offers strength when necessary, while providing *safety and security to the general public*. The Stronghold features the same structural configurations of its high-security counterparts.

- 3-RAIL PANELS | 6', 7', 8', 9' & 10' HEIGHTS
- 2-RAIL PANELS | 6', 7' & 8' HEIGHTS



2.75"w x 14ga PALES | 2" x 2" x 11ga RAILS | 3" x 2.75" x 12ga & 4" x 2.75" x 11ga I-BEAM POSTS



**GAUNTLET™**

Gauntlet is designed with *high-tensile steel corrugated pales* that rise above the topmost rail with an outward curve and terminate with a triple-pointed splayed spear tip. The outward curved pales *discourage attempts to gain access* by would be intruders.

- 3-RAIL PANELS | 7', 8', 9' & 10' HEIGHTS
- 2-RAIL PANELS | 7' & 8' HEIGHTS

### ANTI-SCALE OPTION

The Impasse II *Anti-Scale fence system* has *decreased pale spacing*, which helps deter the assailant from climbing, and *increases the delay time when trying to cut or pry through the fence*.

### COLOR OPTIONS



BLACK

BRONZE

SAND

WHITE

*Custom colors also available*



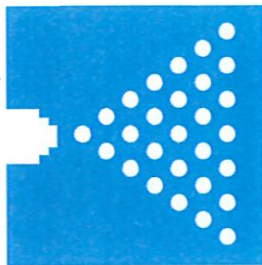




# PERMACOAT™

Impasse II is protected by the unique PermaCoat process. Our **PRE-GALVANIZED STEEL BASE MATERIAL** is subjected to an **11-STAGE PROCESS** to cleanse & prepare the steel for a **DUAL TOP-COAT FINISH**. PermaCoat's corrosion resistant abilities far surpass those of painted surfaces and have a "no-mar" polyester powder top coat. This dual coating not only provides **RESISTANCE FROM WEATHERING** but also reduces scratch & burnishing marks typically encountered during shipping.

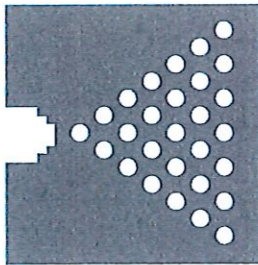
PRE-TREATMENT



## ALKALINE WASH

Cleans metal for proper adhesion of zinc phosphate

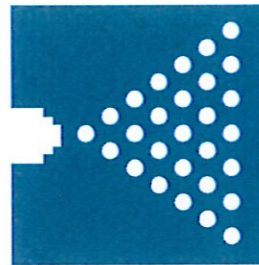
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## FIXIDINE RINSE

Rinses excess alkaline prior to zinc phosphate application

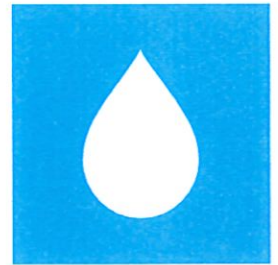
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## PHOSPHATE RINSE

Corrosion resistant layer that assists in bonding powder coating

3

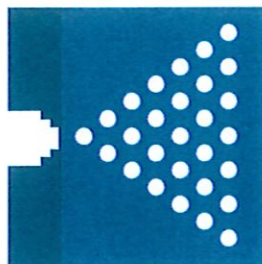


## CLEAR WATER RINSE

A bit of clean H2O to prep for the next phase

4

DOUBLE COATING



## EPOXY POWDER COAT

Epoxy powder is electrostatically applied

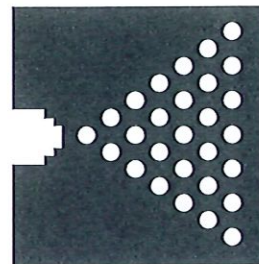
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## EPOXY GEL OVEN

Powder is gelled & cured to finish coat

9



## POLYESTER POWDER

TGIC powder is electro-statically applied

10

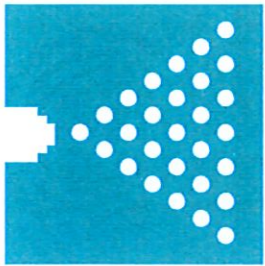
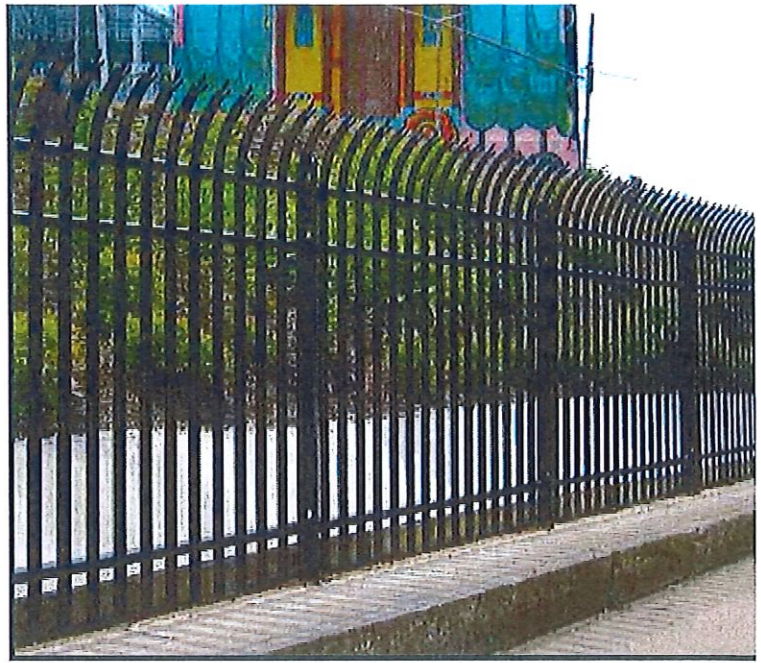
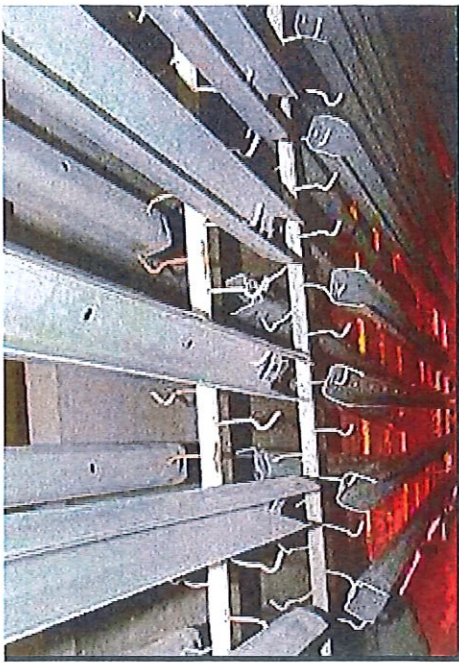


## FINISH CURING OVEN

Seals finish for years of maintenance free use

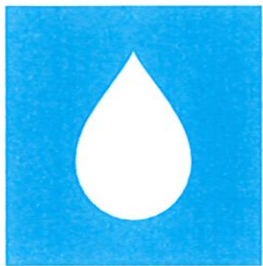
11





**NON-CHROMATE SEAL**  
Barrier to prevent moisture from reaching base metal

5



**CLEAR WATER RINSE**  
Final wash in H2O to remove any excess debris or particles

6



**DRYING OVEN**  
Eliminates all moisture prior to double coating

7

ONCE COMPLETED, THESE 7-STAGES WILL HAVE REMOVED EVERYTHING FROM THE SURFACE OF THE STEEL THAT MIGHT INHIBIT THE FINISH FROM PROPERLY ADHERING DURING THE NEXT 4-STAGES OF THE COATING PROCESS.

CORROSION TESTING

Corrosion occurs more easily without the proper preparation & protection, which is why Ameristar has put our fence products to the test based on ASTM B117 standards. *The results speak for themselves.*



PAINTED STEEL



PRIMED & PAINTED STEEL



SINGLE COAT PROCESS  
Iron Phosphate + Polyester Powder Coat



SINGLE COAT PROCESS  
Zinc Phosphate + Polyester Powder Coat

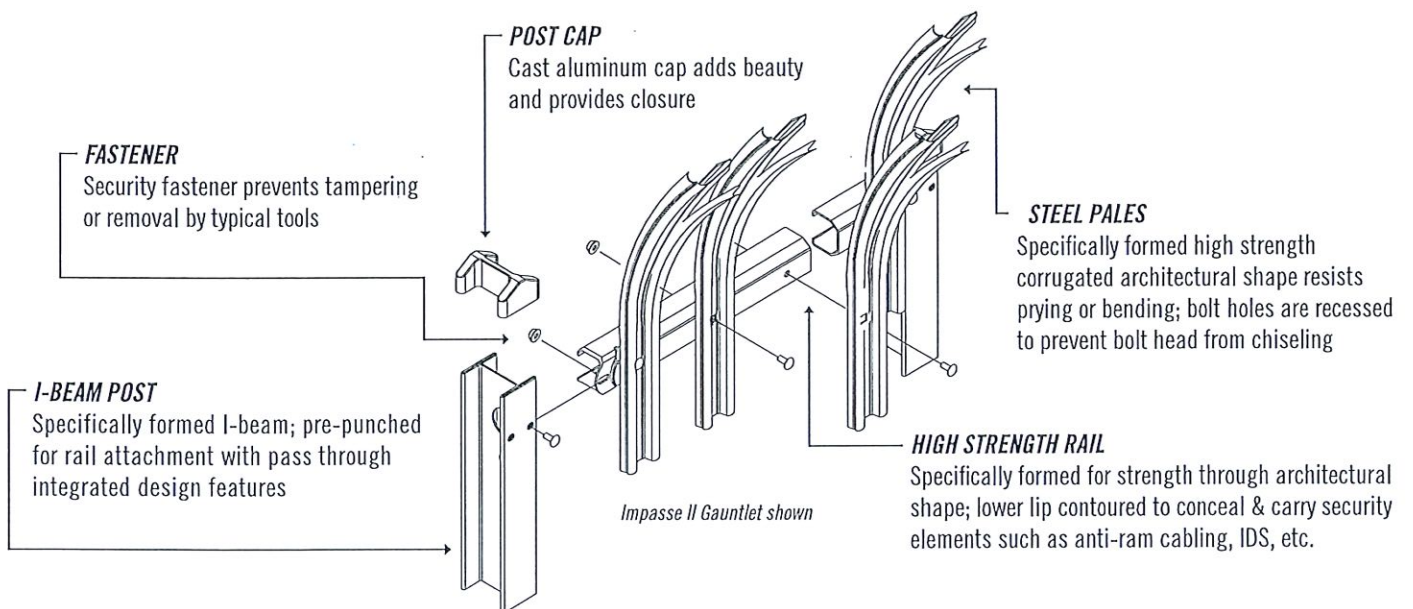


PERMACOAT PROCESS  
Zinc Phosphate + Epoxy Powder Coat + Polyester Powder Coat



# IMPASSABLE DESIGN

Impasse II panels and posts are manufactured using **HIGH-TENSILE PRE-GALVANIZED G-90 STEEL**. Each component has been **ROLL-FORMED** into a unique profile that yields significant strength properties. Impasse II's distinct design enables the fence to **TRAVERSE AGGRESSIVE CHANGES IN GRADE IN ORDER TO MAINTAIN SECURITY** along any perimeter. Each connection point of the Impasse II system is secured with **TAMPER-PROOF FASTENERS** providing the **HIGHEST LEVEL OF SECURITY & VERSATILITY**.



## PRIVACY SCREENING OPTION

A security fence should cover multiple aspects of perimeter security, which is why Ameristar created the steel privacy screening option for its Impasse high security fence system. Secured by each adjacent pale, the overlapping design achieves the maximum level of opacity for visual screening.





*Certified by the US Department of Homeland Security as a method of risk management against acts of terrorism*



*Ameristar's Impasse II is backed by over 30 years of excellence in the fencing industry*

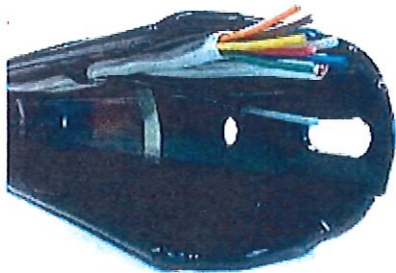
## **RAKEABLE VS STAIR-STEP**

Biasability at a minimum of 25% that requires no additional assembly. This unique feature eliminates unsightly stair-stepping panels.



## **DESIGN INTEGRATION**

The Impasse II framework is a raceway for wiring, conduits & security cabling required around the perimeter of a project. This integrated design eliminates the need for costly trenching & boring becoming a value added solution for perimeter security upgrades.



*(inside of rail shown above / view from protected side)*

*When installing these security elements use Impasse II as a platform:*

- *Communication & Video Cables*
- *Intrusion Detection / Fiber Optic Cables*
- *Access Control Wiring*
- *Conduits*
- *Anti-Ram Cabling (Stalwart IS)*



*Ameristar is committed to providing products that meet the Buy American Act*



*Ameristar products have the opportunity to earn LEED points*



# STALWART IS<sup>®</sup>

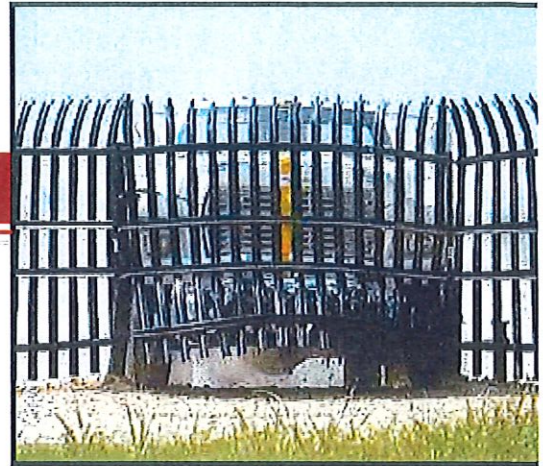
**ANTI-RAM BARRIER + SECURITY FENCE**

Stalwart IS unites the *strongest security fence available* with the *most widely used anti-ram perimeter barrier*. The appearance of Stalwart IS is a great *visual deterrent* that delivers strength and fortitude for keeping any assailant from easily breaching the perimeter.

**M50 M40 M30**

**PU60 PU50 K12 K8 K4**

Stalwart IS offers *multiple anti-ram ratings*. Each installation can be designed with the most appropriate standoff distance from the asset.



## ARCHITECTURAL SUPPORT & SOLUTION SPECIALISTS



Ameristar's *Project Solution Specialists* are *experienced in every facet of perimeter security design*. Our goal is to assist the architectural community in finding the *best perimeter & entry solutions* for their projects. Ameristar's extensive library of project photos, CAD drawings, architectural specifications & project budget quotes are just a few of the services *our team offers to complete your project design*.



# SLIDE GATES & SWING GATES

*Egress & ingress* requirements are unique to each application. *Managing traffic flow & usage demands* are of the utmost importance, which is why Impasse II is manufactured in a variety of gate types built to *balance function, security & beauty*.

Ameristar *Transport™* & *Passport™* sliding gates perfectly match the perimeter fence system to create a *seamless & stunning design* while exuding a *commanding presence* of security built to unite perimeter and entry.





# WHY CHOOSE AMERISTAR

## ▶ KNOWLEDGE & EXPERIENCE

Ameristar was chartered over *30 years ago* in response to the *demand by consumers & specifiers for specialty fence products*. Ameristar offers an *aesthetically pleasing product* that is both *high in quality & affordability*. This has been achieved by maximizing *high-volume productivity*, increasing product design strength, and promoting *simplistic installation*.

## ▶ PROVEN CAPABILITY

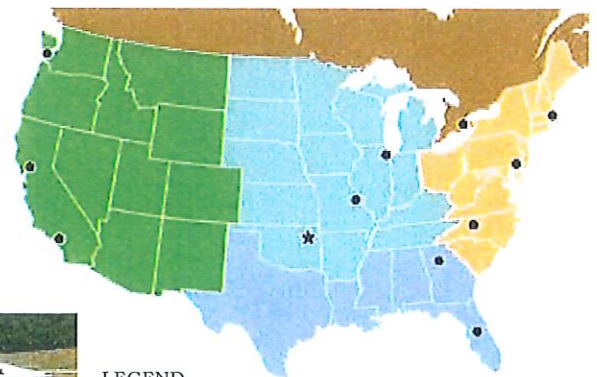
Ameristar's integrated *in-house process & extensive raw material inventory* results in much improved productivity and availability compared to the competition. By having a *vast finished goods inventory*, Ameristar is capable of *delivering finished products faster* than competitors who sublet the majority of their operations.

## ▶ INDUSTRY LEADERSHIP

Over the years Ameristar has continually *raised the bar* across the board in the *manufacturing of high quality*, innovative fencing products. Our demonstrated commitment to *upholding higher values* translates into superior products that *go far beyond* merely meeting minimum industry standards.



Ameristar's world headquarters, manufacturing & coil processing facilities in Tulsa, Oklahoma, USA.



### LEGEND

- ★ Ameristar Headquarters
- Sales & Service Centers

#9718 | REVISED 10/2021



FENCE PRODUCTS

AMERISTARFENCE.COM | 800-321-8724

Experience a safer and more open world

AMERISTAR®

ASSA ABLOY

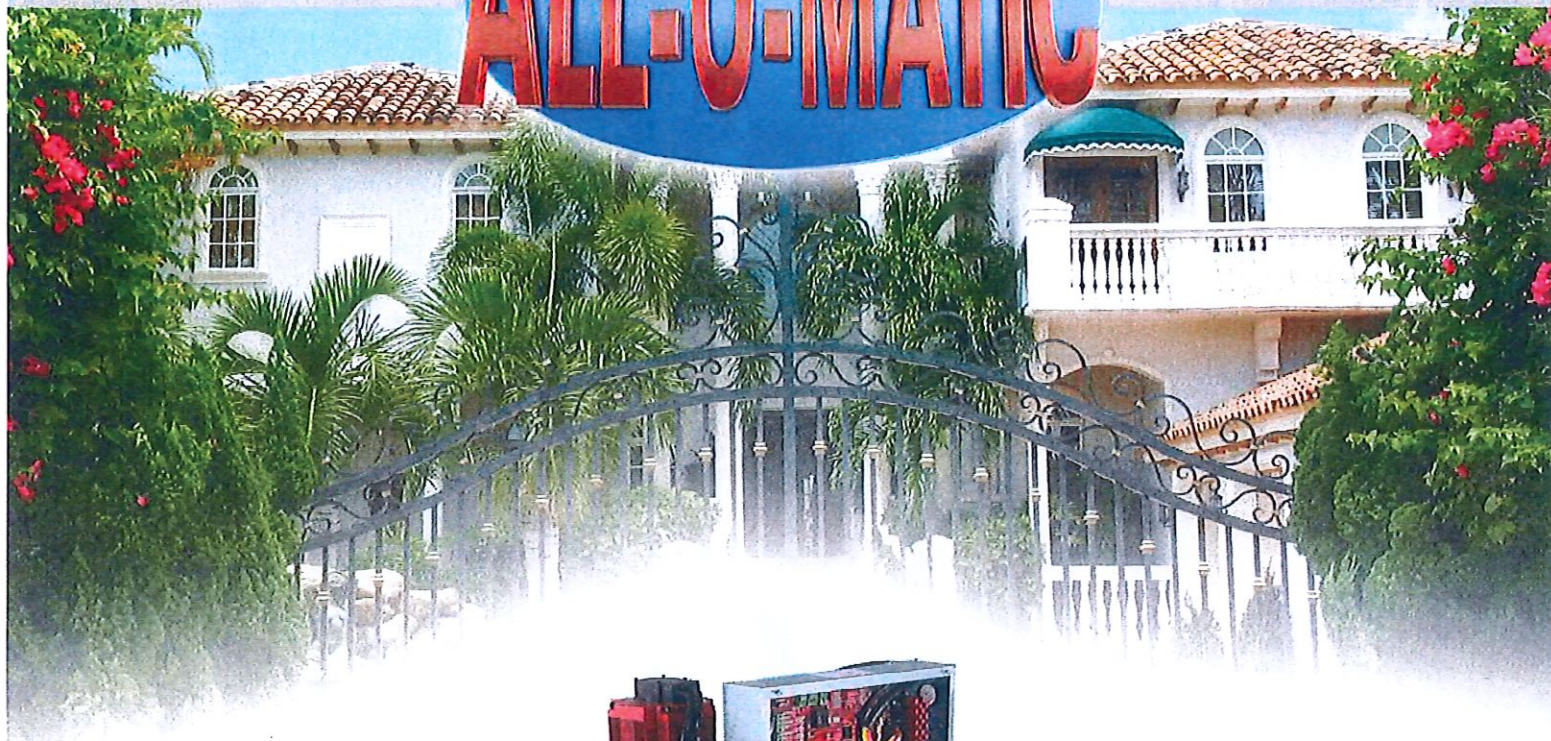


allomatic.net

# ALL-O-MATIC

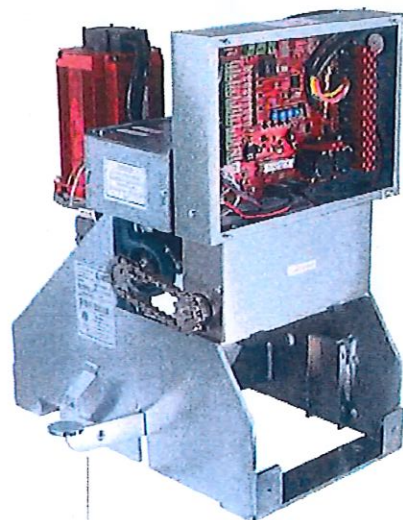


818-787-1988



UL 325 2018  
COMPLIANT

UL 991  
COMPLIANT



INTEGRATED  
BATTERY BACKUP

MAINTENANCE FREE  
BRUSHLESS DC MOTOR

PRE-WIRED LOOP  
DETECTOR RACK

MECHANICAL FOOT  
PEDAL RELEASE



Mechanical Foot Pedal Release

## SL-150 DC

### SLIDE GATE OPERATOR



HEAVY DUTY FRAME

COMMERCIAL/INDUSTRIAL  
APPLICATIONS

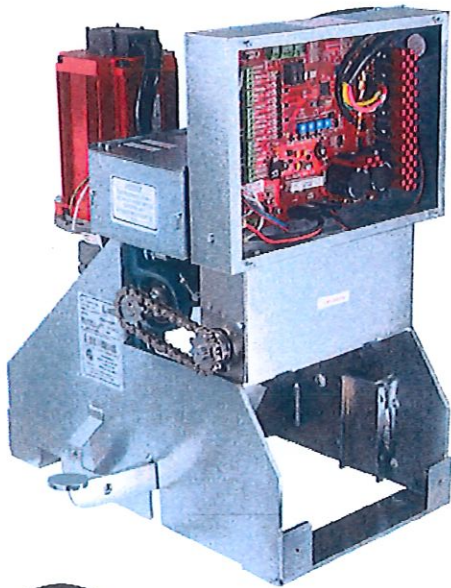
SLIDERS | SWINGERS | OVERHEADS

The standard by which all other automatic gate operators are measured



## SL-150 DC SLIDE GATE OPERATOR

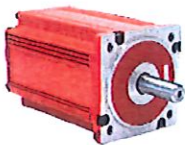
## SPECS



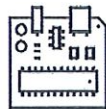
MECHANICAL  
FOOT PEDAL RELEASE



24VDC SOLAR POWER  
OPTION



BRUSHLESS DC MOTOR  
CONTINUOUS DUTY 24V 1HP



CONTROL BOARD WITH  
ARRAY OF FEATURES

### UL 325 2018 Compliant

Max Gate Weight	½ HP: 3,000 lbs. 1 HP: 4,000 lbs.
Max Gate Length	60 feet
Warranty	7 year residential - 5 year commercial
Motor	24 VDC brushless – ½ HP and 1 HP motor
Gate Speed	12" per second
Power Options	115/230 VAC single phase and 24 VDC solar panel
Duty Cycle	Continuous
Battery Back Up	Integrated, with (2) 7Ah 12VDC batteries
Battery Back Up Capacity	100 cycles on a 1,000 lb. gate
Temperature Range	-40 to 160°
Gearbox Ratio	30:1 with internal clutch
Width X Length X Height	15" X 19.5" X 25"
Shipping Weight	150 lbs.
Emergency Release	Mechanical foot pedal release
Belt Size	N/A
Main Sprocket Size	41B22X1
Chain Size	40NP (20' included)
Gearbox Sprocket	40B22X1
Limit Shaft Sprocket	41B10X5/8
Breaker Requirement	20 amp dedicated
Gearbox Pulley	N/A
Motor Pulley	N/A

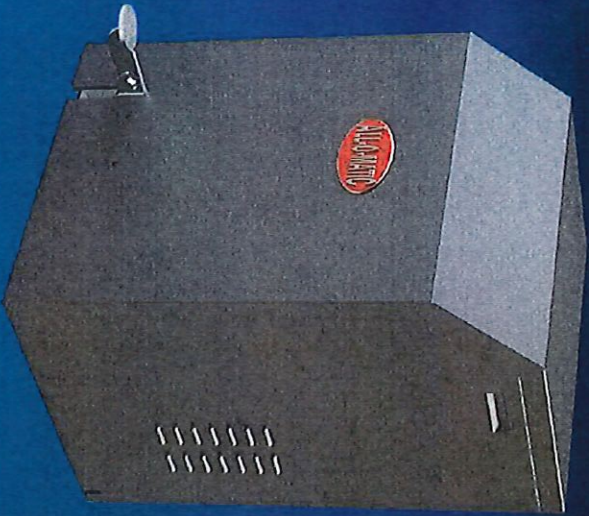
The Warrantor warrants All SL-150 DC Gate Operators. ALL-O-MATIC INC warrants its gate openers for a period of five (5) years in commercial installations, and for a period of seven (7) years in residential installation to be free from defects in circuitry, motor, gear box and workmanship. This warranty applies from the date of purchase to the original owner. Warrantor will repair or, at its option, replace any device which it finds to require service. This device must be sent to the warrantor at the consumer's expense. The warrantor will return the repaired or replaced unit to the customer at the consumer's expense. Labor charges for dealer service or replacement are the responsibility of the owner. These warranties are in lieu of all other warranties either expressed or implied, and ALL-O-MATIC INC shall not be liable for consequential damage. All implied warranties of merchantability and or fitness for a particular purpose are hereby disclaimed and excluded. This limitation is not valid in jurisdictions which do not allow limitation of incidental or consequential damages or limitation of warranty periods. Caution in order to obtain this policy, please complete the registration card and send it by mail within 30 days of purchasing from ALL-O-MATIC INC. or your INSTALLER. If not registered only a one year warranty on all parts will be provided.





# SL-175 DC

SLIDE GATE OPERATOR



818-787-1988

[allomatic.net](http://allomatic.net)

Our **HEAVY DUTY DC** Slide Gate Operator designed for commercial and industrial applications

## SL-175 DC

- ✓ For Gates Up 100 Ft. Long
- ✓ 8,000 Lbs. (12" per second) - Max Gate Weight
- ✓ 3,000 lbs. (24" per second) - Max Gate Weight
- ✓ Mechanical Foot Pedal Release
- ✓ Integrated Battery Backup
- ✓ Maintenance Free 36V Brushless DC Motor



RESIDENTIAL



INDUSTRIAL



MECHANICAL FOOT PEDAL RELEASE



INNOVATIVE CIRCUIT BOARD



WISE M/S COMPATIBLE



36VDC SOLAR POWER OPTION

*\*ALTERNATE\**

*Recommended*



# ALL-O-MATIC



818-787-1988

[allomatic.net](http://allomatic.net)

## SPECS

SCAN FOR  
PRODUCT  
INFORMATION



**Max Gate Weight** 8,000 lbs. (12" per second)  
3,000 lbs. (24" per second)

**Max Gate Length** 100 feet

**Warranty** 5 year commercial

**Motor** 36 VDC brushless motor

**Gate Speed** 12" or 24" per second  
(specify when ordering)

**Power Options** 115/230/480 VAC single phase  
and 36VDC solar panel

**Duty Cycle** Continuous

**Battery Back Up** Integrated, with (3) 14Ah 12VDC batteries

**Battery Back Up Capacity** 100 cycles on a 3,000 lb. gate

**Temperature Range** -40 to 160°

**Gearbox Ratio** 30:1 with internal clutch

**Width X Length X Height** 19.5" x 20" x 27.5"

**Shipping Weight** 320 lbs.

**Emergency Release** Mechanical foot pedal release

**Belt Size** 4L-370 (AX35)

**Main Sprocket Size** 40B18X1-3/8

**Chain Size** 50NP (30" included)

**Gearbox Sprocket** N/A

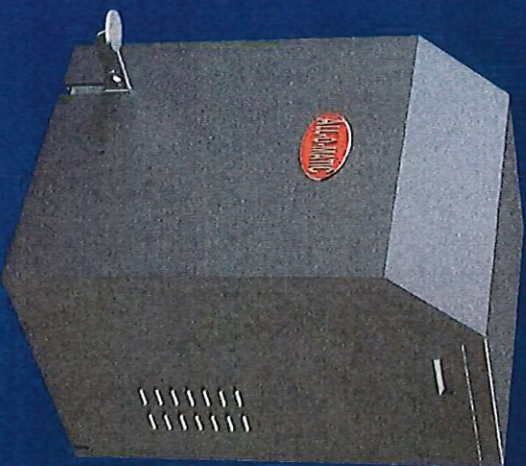
**Limit Shaft Sprocket** 40B18X5/8

**Breaker Requirement** 20 amp dedicated

**Gearbox Pulley** 2AK49X3/4

**Motor Pulley** 2AK30X5/8

**Motor Pulley** N/A



## SL-175 DC SLIDE GATE OPERATOR

### AVAILABLE ACCESSORIES



TK-1000  
Tandem Kit



V-Groove  
Wheels



Fire  
Boxes



Solar  
Panel



PRIME VD-1  
Loop Detector



RESIDENTIAL

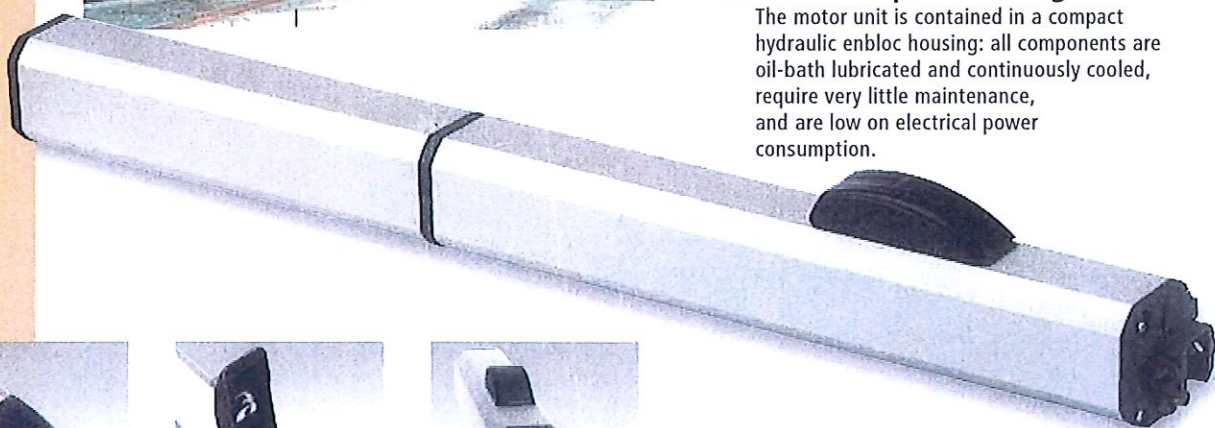


INDUSTRIAL

The Warrantor warrants the SL-175 DC Gate Operator, ALL-O-MATIC INC warrants its gate openers for a period of five (5) years in commercial installations. Installation to be free from defects in circuitry, motor, gear box and workmanship. This warranty applies from the date of purchase to the original owner. Warrantor will repair or, at its option, replace any device which it finds to require service. This device must be sent to the warrantor at the consumer's expense. The warrantor will return the repaired or replaced



for light commercial and industrial swing-leaf gates



#### ■ A wide range of models

The FAAC 400 offers a range of 7 different operators, with or without hydraulic locking designed to automate swing gates up to 7 metres per leaf. The whole range is easily installed and models are available for very heavy gates, industrial gates and high frequency operators.

#### ■ Safe both inside and out

The exclusive hydraulic device, ensuring maximum anti-crushing protection, features two highly sensitive by-pass valves. In case of an emergency, a customised release key makes it possible to operate the gate manually. The power of hydraulic locking gives the system exceptionally high resistance against break-in attempts.

#### ■ FAAC'S experience is guarantee

The motor unit is contained in a compact hydraulic enbloc housing: all components are oil-bath lubricated and continuously cooled, require very little maintenance, and are low on electrical power consumption.

#### ■ Reliability and low noise

Precision mechanics and use of hydraulic oil as motor fluid are the secrets behind the extremely low noise movement. Reliability is assured under any atmospheric conditions and at extreme temperatures in the range -40° C to +55° C.



■ Key-operated emergency release



■ Key-operated emergency release

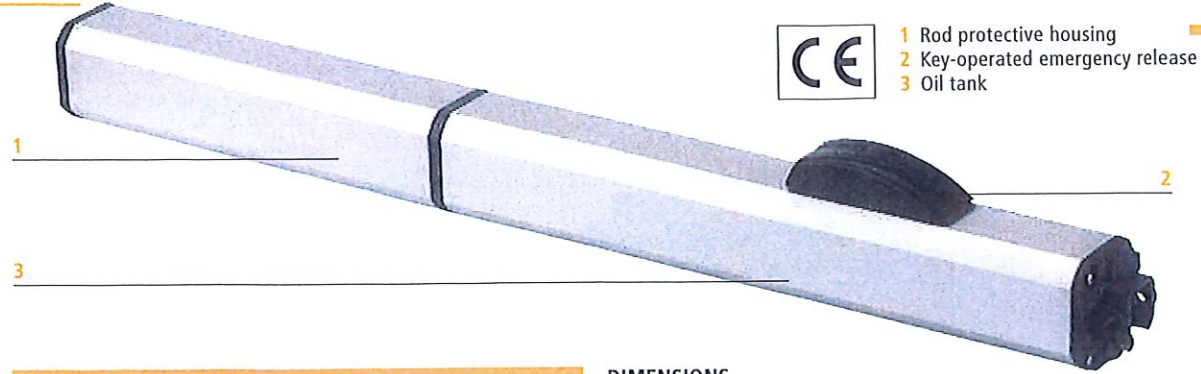


■ Co-moulded cable

#### SPECIFICATIONS

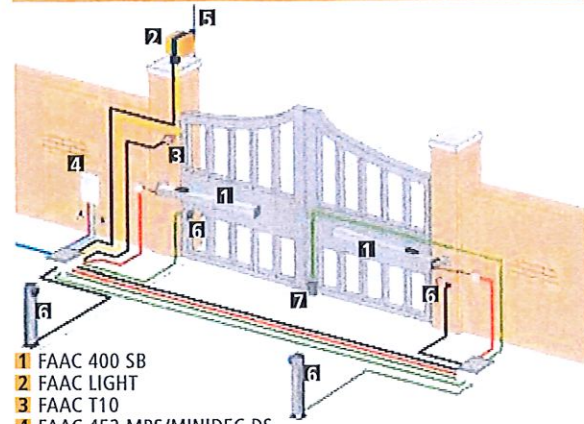
Hydraulic operator with piston for swing-leaf gates · Models available with hydraulic locking on closing, opening and closing, and without locking · Models suitable for max leaf length up to 7 m · Models with max use frequency up to 50 cycles/hour · Models with max traction/thrust force up to 775 daN · Models with rod extension speed 1 cm/s and 1.5 cm/s · Models with pump flow rate of 0.75 - 1 - 1.5 l/min · Models with rod effective stroke 280 mm and 380 mm · Pillar installation · Leaf opening inwards or outwards · Max opening angle 120° · Electric motor power supply 115/230V (+6%-10%) 50(60) Hz · Electric motor power 220 W · Thermal protection at 120°C built into motor winding · Overall dimensions (Length x Width x Height) 1.031x90x113 mm · Protection class IP 55 · Operating ambient temperature -40°C ÷ +55°C · Built-in release device with customised key · Single-phase motor with two rotation directions (1.400 rpm) · Hydraulic gerotor pump (max low noise) · Die-cast distribution flange · Separate control of opening and closing force by by-pass valves · Rod in stainless steel · Securing to front fitting by ball joint · Tank and piston protective housing in anodised aluminium · Air breather screw · Mineral hydraulic oil





- 1 Rod protective housing
- 2 Key-operated emergency release
- 3 Oil tank

## INSTALLATION LAYOUT

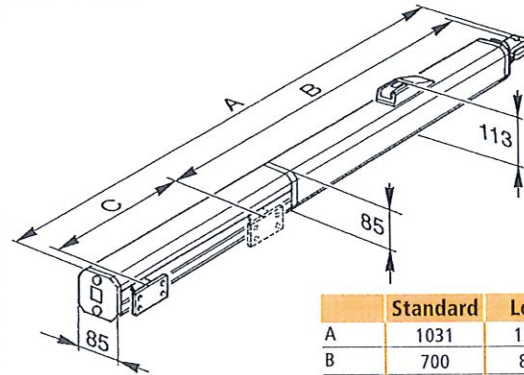


- 1 FAAC 400 SB
- 2 FAAC LIGHT
- 3 FAAC T10
- 4 FAAC 452 MPS/MINIDEC DS
- 5 FAAC PLUS 1 433
- 6 FAAC FOTOSWITCH
- 7 ELECTRIC LOCK

Low voltage cabling	Power cabling (115/230V)
(A) { nr.4 cables 3x0,5 nr.3 cables 2x0,5	(B) { nr.2 cables 3x1,5+T nr.1 cable 2x1,5+T nr.1 cable 2x1,5

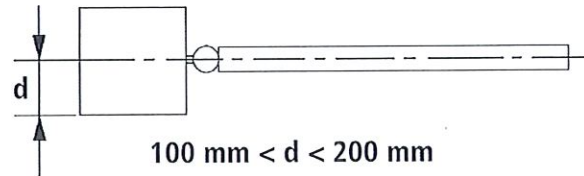
N.B: Cable diameters in mm<sup>2</sup>

## DIMENSIONS

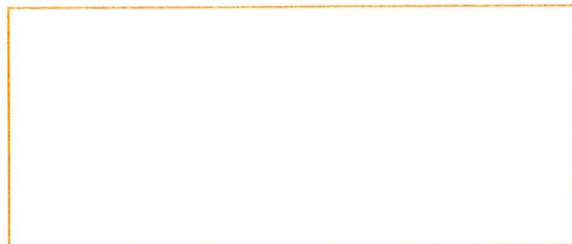


	Standard	Long
A	1031	1285
B	700	822
C	260	380

Values in mm



Technical specifications	400 CBC	400 CBAC	400 SB	400 SBS	400 CBACR	400 CBAC LN	400 SB LN
Power supply	115/230 Vac (+6% -10%) 50 (60) Hz						
Absorbed power	220 W						
Absorbed current	1 A						
Motor rotation speed	1400 rpm						
Rod extension speed		1 cm/s		0,75 cm/s		1,5 cm/s	
Pump flow rate		1 l/min		0,75 l/min		1,5 l/min	
Traction and thrust force		0÷620 daN		0÷775 daN		0÷465 daN	
Operating ambient temperature	-40°C ÷ +55°C						
Thermal protection on motor winding	120°C						
Weight	8,6 kg						
Type of oil	FAAC HP OIL						
Protection class	IP 55						



Model	Use		
	Single leaf max length (m)	Nr. of leaves	Use frequency (cycles/hour)
400 CBC	2,20	1	70
400 SB	4,00	1	70
400 SBS	7,00	1	60
400 CBAC	2,20	1	70
400 CBACR	2,20	1	80
400 CBAC long	2,20	1	50
400 SB long	2,50	1	50

# FAAC

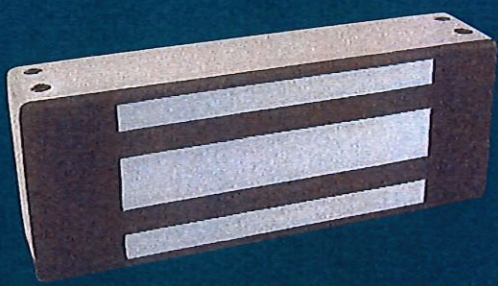
FAAC S.p.A. Via Benini, 1  
 40069 Zola Predosa - Bologna (Italy)  
 tel. +39 051 61724 • fax +39 051 758518  
 www.faacgroup.com





# M62 Magnalock®

1,200 lbs holding force  
direct mounted Magnalock



The ultimate in Magnalock versatility for indoor/outdoor higher security.

The M62 is a strong, easy-to-maintain solution for interior, perimeter and exterior access control. With unsurpassed durability, the M62 will last long after most buildings wear out. Flexible mounting options support applications for hollow metal, concrete filled metal, wood, or glass with aluminum frames, and all glass doors. Options include single and double door configurations, or specialty applications such as gates and fences, and hazardous locations.

*NOTE: M62FG-SASM in Specialty Lock section. See page #62.*

## Features

### Standard Features

- PoE friendly
- Sustainability documentation
- Efficient, low power usage
- Automatic dual-voltage —no field adjustment required
- Fully sealed for weather resistant operations
- Size optimized for use with door closers
- Rust resistant—all ferrous metal surfaces plated for durability
- Instant release circuit —no residual magnetism
- Noise suppression with built-in MOV
- 10 ft [3.05m] of jacketed, stranded conductor cable
- Ultra-secure collapsing blind nuts mount to door frame for strength and reliability
- MagnaCare® lifetime replacement, no-fault, no questions asked warranty

### Optional Features

- F Face drilled
- G Gate conduit
- B Patented BondSTAT magnetic bond sensor
- D Integrated Door Position Switch (DPS)
- SS Split Strike
- SASM Shock Absorbing Strike Mount for Gates
- OS Offset Strike
- EX UL Certified for Hazardous Locations  
*NOTE: Only available with "G" configurations (e.g. M62G-EX)*



Grade 2

MagnaCare Warranty

Auto Sensing Dual Voltage 12/24

PoE Friendly

Fire Rated

Outdoor Rated

Preload



# Specifications

## Certifications

- UL 10C Listed
- CAN4-S104, CAN/ULC-S533 Listed
- ANSI/UL 294 Listed
- CSA-C22.2 No.205 Listed
- ANSI/BHMA A156.23, Grade 2; E08501-1000 Compliant
- CSFM—California State Fire Marshal Approved
- CE:EN 50081-1(92), EN 61000-6-2(99) Approved
- Environmental Product Declaration
- Health Product Declaration
- UL 294 Class I, Division 2, Groups A, B, C and D Listed (-EX configuration only)

## Electrical

- 250 mA at 12 VDC
- 150 mA at 24 VDC

## Holding Force

- 1,200 lbs [544kg]

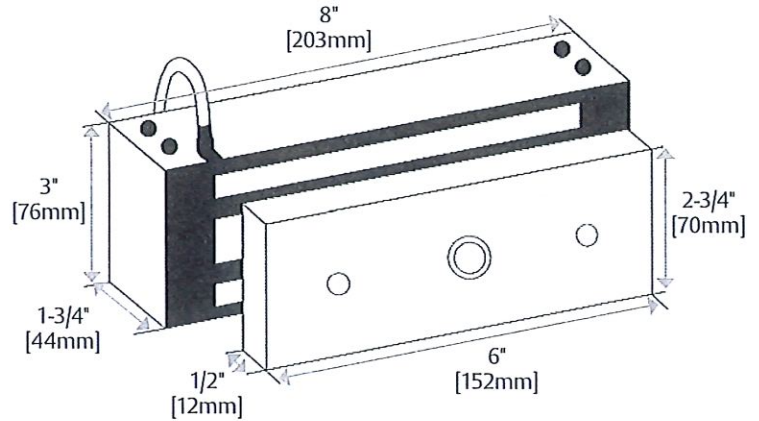
## Operating Temperature

- -40° to 140°F [-40° to 60°C]
- Indoor or Outdoor use

## Shipping Weight

- 11 lbs [5kg]

# Dimensions



# How to Order

MODEL SERIES	MOUNTING METHOD	MONITORING OPTIONS	STRIKE PLATE OPTIONS
<b>M62</b>	<b>FG</b>	<b>BD</b>	<b>- SASM</b>
M62 1,200 lbs	(blank) Direct Mount	(blank) No Monitoring	(blank) Standard Strike
	F Face Drilled	B BondSTAT Monitor	OS Offset Strike
	G Gate Conduit	D Door Position Switch	SS Split Strike
		BD BondSTAT and DPS	SASM* Shock Absorbing Strike Mount
			EX** Hazardous Location Certified

\*SASM can be ordered separately.

\*\*Only applicable to configurations including the Gate Conduit (G). Please contact the factory with any questions.



# Securitron BondSTAT Technology

ASSA ABLOY

Magnetic Bond Sensor

The global leader in  
door opening solutions

## VERTICAL ARMATURE POSITION

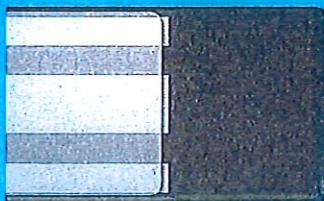


**BondSTAT Secured**  
Armature within lock  
tolerance,  
>95% lock voltage  
present

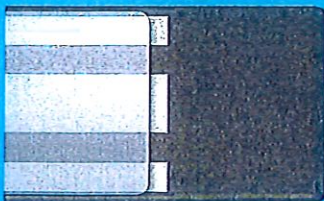


**BondSTAT Unsecured**  
Armature out of lock  
tolerance,  
<95% lock voltage  
present

## HORIZONTAL ARMATURE POSITION



**BondSTAT Secured**  
Armature within lock  
tolerance,  
>95% lock voltage  
present



**BondSTAT Unsecured**  
Armature out of lock  
tolerance  
<95% lock voltage  
present

## Your maglocks report the doors are closed. But are they really secure?

ASSA ABLOY's Securitron BondSTAT, the most innovative electromagnetic lock monitoring technology from ASSA ABLOY Electronic Security Hardware, is unlike typical door position switches that indicate whether or not a door is closed. BondSTAT also notifies your access control or alarm system that the door is accurately secured.

BondSTAT's magnetic field monitors the entire surface of the armature, not just the center or corner. Any variation in the armature's position beyond established installation parameters will initiate a signal indicating the Securitron Magnalock® is not generating full holding potential.

Delivering superior Magnalock monitoring capability for unparalleled security and peace of mind, BondSTAT magnetic bond sensor is now available on most popular Securitron Magnalock models.



MagnaCare  
Warranty



ESH-SEC-016-0418

ELECTRONIC SECURITY HARDWARE

HES | Securitron

assaabloyesh.com | 800.626.7590 | 10027 S. 51<sup>st</sup> Street, Ste. 102 Phoenix, AZ 85044 USA

Patent pending and/or patent [www.assaabloydss.com/patents](http://www.assaabloydss.com/patents)  
Copyright © 2018, Hanchett Entry Systems, Inc., an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of Hanchett Entry Systems, Inc. is prohibited.



### Twin Photobeam Detectors

- E-960-D90Q** Outdoor Range: Up to 90ft (30m)
- E-960-D190Q** Outdoor Range: Up to 190ft (60m)
- E-960-D290Q** Outdoor Range: Up to 290ft (90m)
- E-964-D390Q\*** Outdoor Range: Up to 390ft (120m)

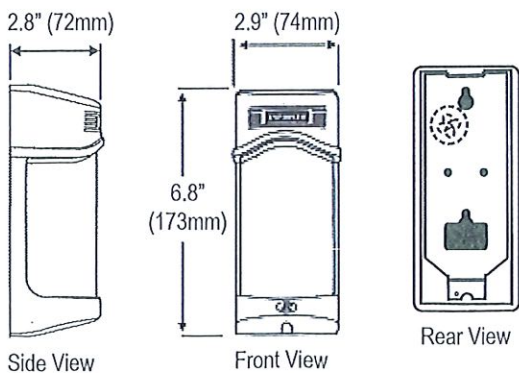
#### Features:

- Twin beams provide reliable perimeter security, minimizing false alarms for falling leaves, birds, etc.
- Lensed optics reinforce beam strength and provide excellent immunity to false alarms due to rain, snow, mist etc.
- Weatherproof, sunlight-filtering case
- Non-polarized power inputs
- Anti-frost system
- Automatic input power filtering with special noise rejection circuitry
- NC/NO Alarm output
- NC Tamper circuit included
- "U" Brackets included for pole mounting
- Quick, easy installation with built-in laser beam alignment system

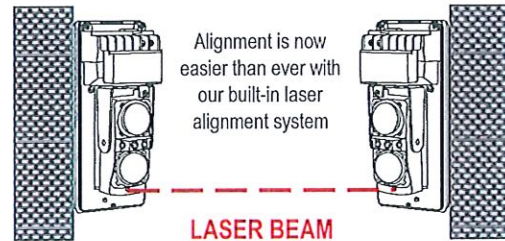
\*E-964-D390Q also features:

- Four selectable beam frequencies

#### Dimensions:

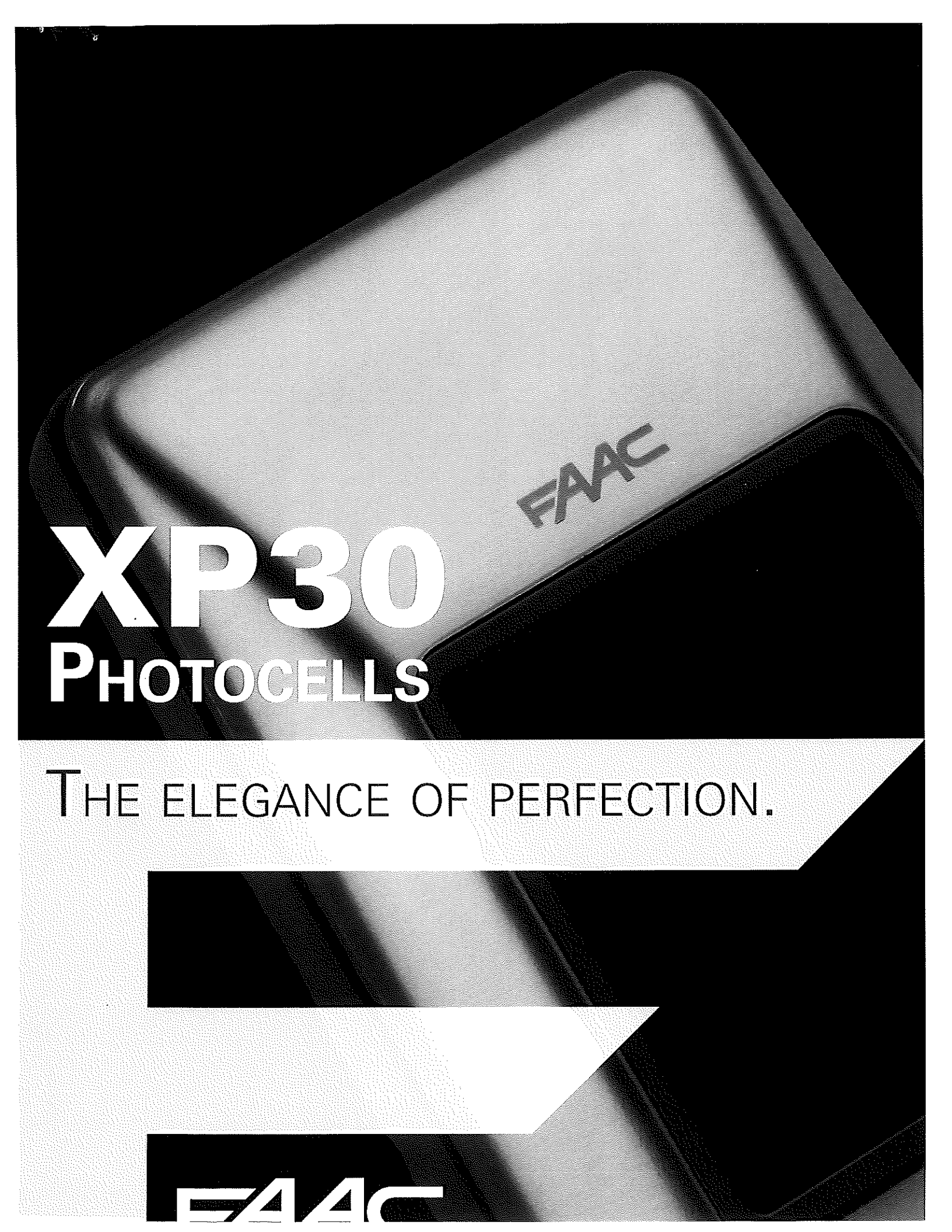


#### Laser Beam Alignment:



#### Specifications:

Model	E-960-D90Q	E-960-D190Q	E-960-D290Q	E-964-D390Q
Max. Range (outdoor)	90' (30m)	190' (60m)	290' (90m)	390' (120m)
Max. Range (indoor)	190' (60m)	390' (120m)	590' (180m)	790' (240m)
Current	53mA	62mA	63mA	64mA
Voltage output	1~4V			
Power	10~30 VAC/VDC (non-polarized)			
Interrupt speed	50msec~700msec (variable)			
Alarm output	NO/NC relay, 1A@120VAC, minimum 1sec			
Tamper output	N.C. switch, 1A@120VAC			
LEDs	Red	ON indicates transmitter and receiver not aligned or beam is broken		
	Yellow	ON indicates weak receiver signal or beam is broken		
	Green	ON indicates unit connected to power		
Laser wavelength	650nm			
Laser output power	<5mW			
Alignment angle	Horizontal: +90°, vertical: +5°			
Operating temperature	-13°F (-25°C)~131°F (55°C)			
Weight	2.5-lb (1.1kg)			



**XP30**  
**PHOTOCELLS**

THE ELEGANCE OF PERFECTION.

**FAAC**



# XP30

## New XP30 wide-range photocells. Design and Technology.

### PERFECTLY SLIM, INCREDIBLY POWERFUL.

A range of 30 metres, and a depth of 21 millimetres. XP30 photocells are extremely compact. A 55 x 78 mm surface with such a limited projection as to keep them safe from passing vehicles.

### SMALL CASING, GREAT DESIGN.

Compact, solid, slim: XP30 models blend into all architectural contexts, from the most classic to the most minimal. XP30 INOX models are all-metal, covered in satin-finished steel, the only ones available on the market.

### OUTER BEAUTY, INNER STRENGTH.

Mould seal on front cover and closed-cell seal in the cable routing area: all XP30 versions ensure maximum protection from insects and weather, including the most extreme conditions.

### BUS 2EASY TECHNOLOGY.

With the XP30B family equipped with BUS 2easy, you can connect up to 16 pairs of photocells to the same control board without any interference. With BUS 2easy, complex systems become simple.

### CHANNEL SELECTION

The XP30 relay models enable simple channel selection at the push of a button. The encoding of the signal prevents any interference between TX and RX and permits 4 pairs of photocells to be installed at short distances.

### NO GLARE, JUST PRACTICALITY

All XP30 models are protected against interference from external light



# PLUS

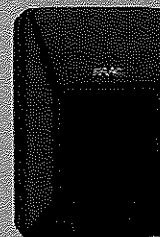
Compact, extremely slim  
dimensions and depth

Wide range (30 metres)

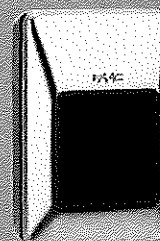
Versatile installation and  
protection from LED car lights

# MODELS

**XP30 Plastic Relay**  
Wide-range photocell (30 m)



**XP30 Inox Relay**  
Wide-range photocell (30 m)

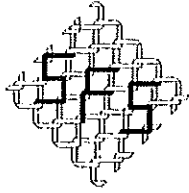


**FAAC**



## XP 30 photocells: technical specifications

	Power supply voltage	Max. photocell distance	Alignment	Output type	Protection class	Dimensions (LxDxH)	Wall-mounted installation	Flush/column-mounted installation
XP 30	24 V <sub>DC</sub> - 24 V <sub>AC</sub>	30 m	Automatic	Relay - N.C./N.O.	IP54	55 × 21 × 78 mm	X	with adapter
XP 30 INOX	24 V <sub>DC</sub> - 24 V <sub>AC</sub>	30 m	Automatic	Relay - N.C./N.O.	IP54	55 × 21 × 78 mm	X	with adapter



## Security Fence Systems Inc.

3524 Rombouts Avenue Bronx, NY 10475  
Email: jcinc4060@aol.com

Chain Link Fences  
Wood Fences  
Razor Ribbon

Automatic Gate Operators  
• Stanley  
• Powermaster  
• Door King

To: Jacobs  
1600 Adams St  
Hoboken, NJ 07030

Date: February 17, 2023  
Revised Proposal

Attn: Dejan Davidovic  
Dejan.davidovic@jacobs.com

Re: Fence and Gates Hoboken WWTP

Security Fence System proposes the following:

### Area 1:

- A. Remove and cart existing fence, posts, and footings.
- B. Provide and install approximately 130 LF of new 8' high Ameristar Impasse II Gauntlet Fence.
  1. Posts to be 3 3/8" x 2 3/4" I beam set in concrete footings 12' x 36-42" and spaced 8' apart.
  2. Sections to be 8' high x 8' wide with (3) horizontal rails and gauntlet pales 14 gauge.
  3. All material to be coated BLACK via the permacoat process.
- C. Provide and install (1) set of 8' high x 20' wide double gates (Ameristar Impasse II Gauntlet Fence).
  1. Gates to have new F.A.A.C 400 hydraulic gate operators.
  2. Gates to have loop detectors and photo cells for safety.
  3. Gates to have a magnetic lock.
  4. Gates to have a sensor for gate position indication.
  5. Gates to be tied into existing visions system and will be controlled from security desk.

*Subtotal Open Shop Installed Price: \$89,500.00*

### Area 2: (At Driveway Between Buildings).

- I. Remove and cart away existing fence and gates.
  - A. Provide and install approximately 20 LF of 8' high Ameristar Impasse II Gauntlet style fence.
  - B. Provide and install (1) set of 8' high x 20' wide Ameristar Impasse II Gauntlet double swing gates.
    1. Gates to be manually operated.
    2. Gates to have locking mechanism.
  - C. Posts to be set in concrete.

*Subtotal Open Shop Installed Price: \$ 29,750.00*

### Area3:

- I. Remove and cart away existing fence gates.
- II. Provide and install approximately 110 LF of 8' high Ameristar Impasse II Gauntlet fence.
  - A. Posts to be set in concrete footings 12" x 36-42".
  - B. Posts to be I-Beam 3 3/8" x 2 3/4".
  - C. All material to be powder coated BLACK.

- III. Provide and install (1) 8' high x 20' wide Ameristar Impasse II Gauntlet sliding gate.
  - A. Provide and install (1) All-O-Matic SL150 Electric sliding gate operator.
  - B. Gate to have loop detectors and photo cells for safety.
  - C. Gate to have magnetic lock.
  - D. Gate to be tied into existing vision security system and can be operated from security desk.
  - E. Gate to have sensor to indicate gate status.

*Subtotal Open Shop Installed Price: \$ 98,500.00*

IV. **Additional Area 4:**

- A. Provide and install fence and double gates to close off area between buildings as shown in picture in email from 02/15/2023. All material to be consistent with the rest of the work. (Ameristar Impasse II Gauntlet).

*Subtotal Open Shop Install Price: \$27,500.00*

**Grand Total Installed Price: \$245,250.00**  
Plus Applicable Taxes

**Alternate:** Upgrade from SL150 to SL175 slide gate operator. (See cut sheet). It is a Industrial operator that would work good in this situation. Add \$3,500 to above price. (Recommended)

**Notes:**

Refer to cut sheets for more information.

Existing electrical and communications wiring to be re-used. Any addition wiring to be done by others.

Temporary fence panels will be used to always maintain security.