

PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

To assure the Board of Directors that all bidders are being offered an equal opportunity to bid and that all bidders are bidding on equal materials and conditions, the following must be adhered to. Any deviations shall be considered sufficient cause for rejection.

1. This is a bid comprising and being administered by the Penn Cambria School District, (hereinafter "District").
2. Under no circumstances shall these specifications be altered. The specifications and any brand names used are to indicate a minimum of acceptable quality, and if not stated "or equal" shall be implied. However, if a bidder bids an item(s) other than what is specified, he shall so indicate and the responsibility of proving that a substituted item is an equal to that specified in the bid specifications, shall be the duty of the bidder, not the District. Proof of an item(s) as being equal shall accompany the bid and be indexed to the item(s) as contained in these specifications. Any substitutions due to lack of availability and/or specification change must be equal to or greater than the item originally specified in this document.
3. All bidders shall demonstrate units for or on which they bid to District personnel, when requested to do so by the authorized agent of the District.
4. DELIVERY: Delivery of items proposed shall be the responsibility of the successful bidder. Delivery of all cameras and related license must be no later than 60 Days after order is placed unless prior approval has been granted by the District. Cost of delivery shall be included in the bid prices proposal.
5. INSTALLATION: Installation should be completed as described in the specifications. Installation must be completed at a mutually agreed upon time so as not to disrupt school operations. All installation must be completed within 90 calendar days of purchase.
6. No bids shall be permitted to be withdrawn after the time set for the opening of bids. All bids shall remain valid for sixty-five (65) days after the date set for opening bids. The District shall have a maximum of sixty-five (65) days from the date of opening bids for issuing notice of acceptance and the awarding of contract.
7. All bids must be either typewritten or printed in ink on the enclosed forms and signed by an authorized representative of the bidder with the authority to bind the bidder. Unsigned bids will not be considered.
8. The District is exempt from all federal, state and local taxes; therefore, the bid price shall be net of any taxes. All taxes imposed on any party other than the retail purchaser MUST be included and accounted for in any and all bid amounts. There will be no allowances provided to compensate or reimburse any party for any increase or decrease in any tax imposed upon any party other than the retail purchaser.

PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

9. The totals of each bid shall be firm and irrevocable. This total shall appear on the Bid Form included herein.
10. The District shall award the contract for the performance of this Project to the lowest responsible bidder. The District shall not arbitrarily or capriciously award the contract for the performance of this Project.
11. **No minimum purchase requirement** shall be included in any bid or applied to the District. Any attempt to insert an addendum or additional language providing for a minimum purchase requirement shall be proper grounds for the District to reject the bid. Quantities included in the bid specifications are estimated quantities but will vary based upon need and available funding.
12. No rights shall accrue to any party until written contracts have been executed by duly authorized officers of the District and the Successful Bidder.
13. No additional terms will be recognized beyond those listed in these bid documents unless they are included in the express written and duly authorized Agreement to be completed by the parties after the award of the bid.
14. The District requires that all bidders submit a properly and completely filled out Non-Collusion Affidavit.
15. The District reserves the right to request references from any bidder, as it deems necessary, in order to assist in determining which bidder has submitted the lowest responsible bid.
16. The District reserves the right to accept any bid or portion thereof and to reject any bid, either in its entirety or any portion thereof. The District reserves the right to reject any and all bids where the District determines such action to be in its best interests. Any proposal which contains items not specified, or which does not complete all the items required, shall be considered informal and may be rejected on this basis.
17. At its discretion, the District may waive any immaterial irregularity, formality, or technicality in any Proposal where it is in the District's best interest to do so.
18. The bidder agrees, through submission of any bid, that in the event its bid is rejected by the District for any reason and such rejection is contested by the bidder through the commencement of legal proceedings, whether in law or in equity, the District shall be entitled to an award of reasonable attorney's fees and costs if the District's rejection of the contested bid is upheld, affirmed, or otherwise not set aside.
19. The Successful Bidder will knowingly, willingly, and voluntarily indemnify and hold harmless the District, and shall assume any and all risks of accident, personal injury, death or property damage to itself, its successors, agents, or any other person entering the District's facilities on behalf of the Successful Bidder resulting from the performance of the Successful Bidder, its employees, and its agents under the Agreement. The Successful Bidder will agree to now and

PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

forever release, acquit, discharge, defend, indemnify and hold harmless the District and its officers, officials, directors, representatives, agents, and employees, from and against any and all claims, loss, causes of action, suits, costs, or expense for any and all personal injury, death, or property damage arising directly or indirectly from performance of the Successful Bidder's obligations under the terms of the Agreement.

20. The Successful Bidder shall be solely responsible for any violations of Local, State, or Federal laws and regulations resulting from the Successful Bidder's performance under the terms of the Agreement. The Successful Bidder shall agree to defend, indemnify, and hold harmless the District from any and all fines, claims, causes of actions, suits, cost, or expense resulting from the Successful Bidder's failure to properly equip and train its employees in compliance with all applicable Local, State, or Federal laws and regulations.
21. The Successful Bidder shall be responsible for any damage to property caused by the Successful Bidder or their agents and employees in the performance of the duties awarded to the Successful Bidder.
22. The Successful Bidder may not assign their performance obligations without the express written consent of the District. Any assignment without the express written consent of the District will provide the District with a right of rescission, which shall be exercised within twenty (20) days of the District's notification of the assignment or the effective date of the assignment, whichever is later.
23. Bids shall be received at the Business Office of the Penn Cambria School District, 201 6th Street, Cresson, Pennsylvania, 16630, until **1:00 PM, Monday, March 11, 2024**, at which time bids will be publicly opened in the Penn Cambria Pre-Primary Conference Room. All bid envelopes shall be properly sealed and appropriately marked on the outside of the envelope, "**DOOR CONTROLLER/ALARM SYSTEMS AND INSTALLATION**".
24. *If further information is needed, please contact or schedule an appointment with the District.* Questions regarding this bid document may be directed to the Penn Cambria School District at (814) 886-8121 x1010 between 8:00 A.M. and 3:00 P.M. Monday through Friday. No oral interpretation will be made to any bidder as to the meaning of the specifications and drawings. Interpretations, if made, shall be written in the form of an email and sent to all bidders to whom specifications have been issued.

PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

Please print all information.

Company Name		
Company Representative		
Address		
Address		
City, State, Zip		
Telephone & extension		Fax
Email		
Original Written Signature		Date

PENN CAMBRIA SCHOOL DISTRICT
2023-2024 Security Cameras and Related License

INSTRUCTIONS TO VENDORS

SPECIFICATIONS

- A. Bidders must use the pricing forms as contained in *APPENDIX A*
- B. Addendum for contracts under federal award as applicable *APPENDIX B*
- C. Detailed specifications for door systems and installation are included in *APPENDIX C.*

PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

APPENDIX A

DATA PROVIDED BY DISTRICT			DATA PROVIDED BY VENDOR		
Item	Description	Estimated Quantity	Unit Cost	Extended Cost	Estimated Lead Time (Delivery)
Axis A1610-B Controller	2 Door Controller	6			
ASSA ABLOY H.E.S 9600 LBM Strike with LBM	Door Strike with Latch Bolt and Strike Monitoring	6			
Mullion (Slim) Multi-Tech 125 kHz/ 13.56 MHz Reader	Exterior Card Reader mounted on Mullion	3			
Multi-Tech 125 kHz/ 13.56 MHz Reader	Exterior Card Reader mounted on Wall	7			
Axis A9210 I/O Relay Module (New Q2/2024)	Available Quarter 2 of 2024 - I/O Relay for Door Timer	5			
Altronix 6062 Multi-Purpose Timer	Door open timer adjustable from 0 to 60 seconds	9			
M62 Magalock with BondSTATMonitor (Single Door)	Single Door Magnetic Lock	1			
DM62 Magalock with BondSTAT Monitor (Double Door)	Double Door Magnetic Lock	4			
Axis D4100-E Audio/Visual Alerter	Visual and Audio Alert for Door Open over 0-60 seconds	17			
Request to Exit (REX) Device	Request to Exit Sensor	9			
ASSA ABLOY DPS-W DPS-M Door Position Switches	Monitor the open status of a door	33			

PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

GRI SURFACE MOUNT DOOR CONTACTS 29A (for doors that the DPS-W,PDS-M Switches do not work)	Monitor the open status of a door (some doors may not work with the cut-in sensors)	33			
Installation of the above equipment as per specifications. Installation to take place at five district building locations. For more specific information related to installations or to schedule a site visit to review, please contact Director of Technology: Lewis Hale 814-886-8121 x1010 halela@pcam.org					
TOTALS			\$	\$	

PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

APPENDIX B

Penn Cambria School District (referred to herein as "District")

_____ (referred to herein as "Vendor")

2023-2024 Door Controller/Alarm Systems and Installation (referred to herein as "Contract")

ADDENDUM FOR CONTRACT FUNDED WITH FEDERAL FUNDS

The following provisions are required when District spends federal funds for any contract. **Accordingly, except where stated not applicable, the following terms apply to the Contract because it is expected Vendor will be paid with such funds.**

(A) Vendor Violation or Breach of Contract Terms

Under 2 CFR Part 200, and specifically § 200.327 and Appendix II, contracts for more than the simplified acquisition threshold (currently set at \$250,000), which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council as authorized by 41 U.S.C. 1908, must address administrative, contractual, and legal remedies if contractors violate or breach contract terms, and must provide for appropriate sanctions and penalties.

In addition to other terms stated in the Contract, Vendor at no cost to the District shall promptly correct any errors, omissions or defects in any product, services, or other item Vendor is required to deliver. The District reserves the right to reject any item reasonably determined by the District as containing errors, omissions or defects or otherwise failing to conform to the Contract. If Vendor fails to make corrections within a reasonable time, in addition to any other remedies available at law or in equity, District may at its option: (1) Make corrections and offset the cost of correction against any balance remaining owed to Vendor, and Vendor shall reimburse the District for any cost in excess of the balance. (2) Terminate the Contract, in which case Vendor at no cost to District shall remove any tangible items provided to date. (3) Accept delivery not in accordance of the Contract, instead of requiring removal or correction, in which case the contract sum will be reduced as appropriate and equitable. Such adjustment shall be effected whether or not final payment has been made. ***This term shall apply without regard to the Contract amount.***

Does the Vendor agree? YES _____ Initials of Authorized Representative of Vendor

**PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630**

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

(B) District Termination for Cause and for Convenience

Under 2 CFR Part 200, and specifically § 200.327 and Appendix II, contracts for more than \$10,000 must address Termination for Cause or for Convenience by the District, including the manner by which it will be effected and the basis for settlement.

In addition to other terms stated in the Contract, District reserves the right by written notice to terminate the Contract effective on a future date specified in the notice, with or without cause. Cause means violation or breach of any Contract terms. If the Contract is terminated without cause, the District shall pay the Vendor for any product, services, or other item Vendor is required to deliver and which has been satisfactorily delivered prior to termination. ***This term shall apply without regard to the Contract amount.***

Does the Vendor agree? YES _____ Initials of Authorized Representative of Vendor

(C) Equal Employment Opportunity

Under 2 CFR Part 200, and specifically § 200.327 and Appendix II, except as otherwise provided under 41 CFR Part 60, all contracts that meet the definition of “federally assisted construction contract” in 41 CFR Part 60-1.3 must include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, “Equal Employment Opportunity” (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375 “Amending Executive Order 11246 Relating to Equal Employment Opportunity,” and implementing regulations at 41 CFR part 60, “Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor.”

41 CFR Part 60-1.3, states that “federally assisted construction contract” means any agreement for construction work which is paid for in whole or in part with funds obtained from the Government or borrowed on the credit of the Government pursuant to any federal program involving a grant, contract, loan, insurance, or guarantee under which the applicant itself participates in the construction work.

Does the Vendor agree? YES _____ Initials of Authorized Representative of Vendor

PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

(D) Prevailing Wage Requirement for Construction Contracts

Under 2 CFR Part 200, and specifically § 200.327 and Appendix II, prime construction contracts for more than \$2,000 must require compliance with the prevailing wage requirements of the Davis-Bacon Act, 40 USC 31-3148, as supplemented by Department of Labor regulations. Such contracts must also include a provision for compliance with the Copeland “Anti-Kickback Act,” 40 USC 3145, as supplemented by Department of Labor regulations.

Does the Vendor agree? YES _____ Initials of Authorized Representative of Vendor

(E) Contract Work Hours and Safety Standards

Under 2 CFR Part 200, and specifically § 200.327 and Appendix II, construction contracts for more than \$100,000 must require compliance with the Contract Work Hours and Safety Standards Act, 40 USC 3701-3708, including requirements for payment of overtime and maintenance of safe working conditions.

The District has determined that these requirements are not applicable to the Contract.

(F) Rights to Inventions Made Under Agreement

Under 2 CFR Part 200, and specifically § 200.327 and Appendix II, certain research contracts funded by federal grants are required to include provisions relating to inventions made by non-profit organizations and small business firms.

The District has determined that these requirements are not applicable to the Contract.

(G) Clean Air Act and Federal Water Pollution Control Act

Under 2 CFR Part 200, and specifically § 200.327 and Appendix II, contracts for more than \$150,000 must require the Vendor to agree to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, 42 U.S.C. 7401-7671q, and the Federal Water Pollution Control Act, 33 U.S.C. 1251- 1387.

The District has determined that these requirements are not applicable to the Contract.

PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

(H) Debarment and Suspension

Under 2 CFR Part 200, and specifically § 200.327 and Appendix II, a contract award (see 2 CFR 180.220) may not be made to parties listed on the governmentwide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), "Debarment and Suspension." SAM exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

Vendor certifies that it is not listed on the governmentwide exclusions in SAM, and is not debarred, suspended, or otherwise excluded by agencies or declared ineligible under statutory or regulatory authority.

Does the Vendor agree? YES _____ Initials of Authorized Representative of Vendor

(I) Byrd Anti-Lobbying Amendment

Under CFR Part 200, and specifically § 200.327 and Appendix II, contractors that bid for an award exceeding \$100,000 must file certifications under 31 U.S.C. 1352. that the Contractor has not paid any person or organization for influencing or attempting to influence an officer or employee of any agency, a member, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any federal contract, grant or any other award. The Contractor must also disclose any lobbying with non-federal funds in connection with obtaining any federal award.

If applicable, Vendor certifies that it is in compliance with all provisions of the Byrd Anti-Lobbying Amendment, 31 U.S.C. 1352.

The District has determined that these requirements are not applicable to the Contract.

(J) Contracting with Small and Minority Businesses, Women's Business Enterprises, and Labor Surplus Area Firms

Under 2 CFR Part 200, and specifically § 200.321, the District and Vendor are required to take all necessary affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible. Affirmative steps include:

- a) Placing qualified small and minority businesses and women's business enterprises on solicitation lists;

**PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630**

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

- b) Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;
- c) Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;
- d) Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises;
- e) Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce; and
- f) Requiring any subcontractor, if subcontracts are to be let, to take the affirmative steps listed in paragraphs (a) through (e).

Does the Vendor agree? YES _____ Initials of Authorized Representative of Vendor

(K) Domestic Preferences

Under 2 CFR Part 200, and specifically § 200.322, the District expresses a preference, to the greatest extent practicable, for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited iron, aluminum, steel, cement, and other manufactured products), and this requirement must be included in any subcontract.

Does the Vendor agree? YES _____ Initials of Authorized Representative of Vendor

(L) Procurement of Recovered Materials

Under 2 CFR Part 200, and specifically § 200.323, contracts involving purchases for more than \$10,000 (or if the value of the quantity acquired by District during the preceding fiscal year exceeded \$10,000), must require contractor compliance with § 6002 of the Solid Waste Disposal Act, which includes procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR Part 247 that contain the highest percentage of recovered materials practicable.

Does the Vendor agree? YES _____ Initials of Authorized Representative of Vendor

**PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630**

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

(M) Bonding Requirements

Under 2 CFR Part 200, and specifically § 200.326, for construction contracts or subcontracts exceeding the simplified acquisition threshold (currently set at \$250,000), minimum requirements for bonding are as follows:

- a) A bid guarantee for 5% of the bid price. The bid guarantee must consist of a firm commitment such as a bid bond, certified check, or other negotiable instrument accompanying a bid as assurance that the bidder will, upon acceptance of the bid, execute contract documents required within the time specified.
- b) A performance bond for 100% of the contract price. A performance bond secures contractor's fulfillment of all requirements under the contract.
- c) A payment bond for 100% of the contract price. A payment bond assures payment of all persons supplying labor and material under the contract.

The District has determined that these requirements are not applicable to the contract.

(N) General Compliance and Cooperation

Vendor shall make a good faith effort to provide District such information and to satisfy District requirements applicable to the Contract under applicable federal regulations, including but not limited to recordkeeping requirements and contract cost and price analyses required.

Does the Vendor agree? YES _____ Initials of Authorized Representative of Vendor

PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

APPENDIX C

Detailed Specifications for Door Controller/Alarm Systems and Installation

INSTALLATION

- A. The contractor's or subcontractor's main resources within the project shall carry proper professional certification issued by the manufacturer and verified by a third-party organization to confirm sufficient product and technology knowledge.
- B. The contractor shall carefully follow instructions in documentation provided by the manufacturer to ensure all steps have been taken to provide a reliable, easy-to-operate system.
- C. All equipment shall be tested and configured in accordance with instructions provided by the manufacturer prior to installation.
- D. All firmware found in products shall be the latest and most up-to-date version as specified by the manufacturer, or by the product component provider.
- E. All equipment requiring users to log on using a password shall be configured with user/site-specific password/passwords. No system/product default passwords shall be allowed.
- F. A proper installation shall meet NEC (National Electrical Code – US only) per the guidelines of that year's revision. When properly installed equipment meets Low Voltage, Class 2 classification of the NEC.

PART 1 GENERAL

1.01 SYSTEM DESCRIPTION

A. General Requirements

- 1. The specified products shall be of manufacturer's official product line, designed for commercial and/or industrial 24/7/365 use.
- 2. The specified products shall be based upon standard components and proven technology using open and published protocols.
- 3. Related Requirements
 - a. 28 05 07.21 PoE Power Sources for Electronic Safety and Security
 - b. 28 05 11 Cyber Security Requirements for Electronic Safety and Security
 - c. 28 05 19 Storage Appliances for Electronic Safety and Security
 - d. 28 05 21 Network Attached Storage for Electronic Safety and Security
 - e. 28 05 23 Storage Area Network for Electronic Safety and Security
 - f. 28 23 11 Video Management System Analytics
 - g. 28 23 13 Video Management System Interfaces

B. Sustainability

- 1. The specified products shall be manufactured in accordance with ISO 14001.
- 2. The specified products shall be compliant with the EU directives 2011/65/EU (RoHS) and 2012/19/EU (WEEE).
- 3. The specified products shall be compliant with the EU regulation 1907/2006 (REACH).
- 4. The specified unit, including all its components, shall not contain any added PVC.
- 5. The manufacturer shall have signed and support the UN Global Compact initiative as defined by United Nations.

1.02 QUALITY ASSURANCE

- A. The contractor or security sub-contractor shall be a licensed security Contractor with a minimum of five (5) years' experience installing and servicing systems of similar scope and complexity and evidence that is completed at least three (3) projects of similar design and is currently engaged in the installation and maintenance of systems herein described.
- B. All installation, configuration, setup, program and related work shall be performed by electronic technicians thoroughly trained by the manufacturer in the installation and service of the equipment provided.
- C. The contractor or designated sub-contractor shall submit credentials of completed manufacturer certification, verified by a third-party organization, as proof of the knowledge.
- D. (If applicable) All installation shall be performed by technicians carrying installation certificates meeting the safety/license/bonding requirements for the site.
- E. The specified products shall be manufactured in accordance with ISO9001.

1.03 WARRANTY

- A. The manufacturer shall provide a five (5) year limited hardware warranty for product that is free from defects in design, workmanship and materials under substantiated normal use. Defective products under the warranty period will be either repaired or replaced by the manufacturer.

1.04 SOFTWARE UPGRADES

- A. The manufacturer shall provide free upgrades to new software releases within the same major version for the lifetime of the version.
- B. The software shall be backed by free support for the lifetime of the version.

PART 2 PRODUCTS

2.01 GENERAL

- A. The specified products shall be IP-based and comply with established network and video standards.

PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

- B. The specified products shall be fully supported by an open and published API (Application Programmers Interface), which shall provide necessary information for integration of functionality into third-party applications.
- C. (If applicable) The specified products shall be powered by the switch utilizing the network cable. Power injectors (midspans) shall be provided by the contractor when required for proper operation.
- D. (If applicable) The video management system shall support integration with compatible devices that are compliant with relevant parts of IEC 62676-2-3.
- E. Any further accessories to the specified products shall be provided by the contractor when required for proper operation.

2.02 VIDEO SURVEILLANCE SCHEDULE

- A. The product or product types listed below describing various resolutions, form-factor and features shall be supplied by a single manufacturer for video surveillance system.
- B. The product name and model numbers will be as follows:
 - 1. The access control network panel shall be an AXIS A1610 Network door controller
 - 2. Multi-Tech 125 kHz/ 13.56 MHz Reader shall be Schlage MT11 Multi-Technology Mullion Reader or HID® Signo™ Reader 20
 - 3. Network I/O Relay Module shall be AXIS A9210 (To be released Q2/2024)
 - 4. Strike with Latchbolt and Strike Monitor shall be h.e.s 9600 Series Surface Mounted Electric Strike
 - 5. Magalock with BondSTAT Monitor shall be DM62 Magalock with BondSTAT Monitor
 - 6. Time Delay Module shall be Altronix 6062 Timer Multi-Purpose, 12/24VDC 1 to 60 Seconds
 - 7. Door Closure Contacts shall be ASSA ABLOY DPS-W DPS-M Door Position Switch or GRI SURFACE MOUNT DOOR CONTACTS 29A
 - 8. Audio-visual network alerter shall be AXIS D4100–E Network Strobe Siren
 - 9. Request-to-Exit Motion Sensor

2.03 VIDEO SURVEILLANCE PRODUCTS

- A. Network door controller
 - 1. The access control network panel shall meet or exceed the following design specifications:
 - a. The network door controller shall be a fully functional stand-alone door network door controller, supporting two readers, REX-buttons, auxiliary and external I/Os (break and emergency), door position sensors and door looks.
 - b. The network door controller shall operate on an open source; Linux-based platform, include a built-in web server and be equipped with a standard Ethernet-port for remote access and control.
 - c. The network door controller casing shall be:
 - 1. Designed for DIN rail and wall-mount.
 - 2. Be fitted with tamper detection
 - 3. Equipped with detachable color-coded connectors for reader, I/O door inputs, relay outputs, auxiliary functions and external inputs.
 - d. The network door controller shall support up to 4x OSDP, or 2x Wiegand, readers and supported interfaces shall include:
 - 1. Wiegand
 - 2. RS485 (OSDP)
 - 3. OSDP Secure Channel
 - e. The network door controller shall be plenum rated.
 - 2. The access control network panel shall meet or exceed the following performance specifications:
 - a. Credentials
 - 1. Store up to 250 000 defined cardholders.
 - a. Utilize both central processing and true distributed processing technology.
 - b. Local processing stores cardholder data, access groups, time zones, input and output information in network door controller RAM.
 - c. Distributed processing shall take over the functions of making access decisions, controlling doors, monitoring alarms, activating relays and performing the functions of remote control and time activated actions.
 - b. Door control functionality
 - 1. The network door controller shall support multifactor authentication.
 - 2. The network door controller shall provide correct response within no more than 1 second of presenting a defined credential.
 - 3. The network door controller shall support individually adjustable shunt times for each door.
 - c. User Interface
 - 1. Web server
 - a. The network door controller shall contain a built-in web server making hardware configuration available to multiple clients in a standard operating system and browser environment using HTTP, without the need for additional software.
 - b. Optional components downloaded from the network door controller for specific tasks shall be signed by an organization providing digital trust services.
 - 2. Language Specification
 - a. The network door controller shall provide a function for altering the language of the user interface, and shall include support for at least 10 different languages.
 - 3. IP addresses
 - a. The network door controller shall support both fixed IP addresses and dynamically assigned IP addresses provided by a Dynamic Host Control Protocol (DHCP) server.
 - b. The network door controller shall allow for automatic detection of the Network door controller based on UPnP and Bonjour when using a computer with an operating system supporting this feature.

PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

- c. The network door controller shall provide support both for IPv4 and IPv6.
- d. The network door controller shall provide support for IPv6 USGv6.
- d. Event functionality
 1. The network door controller shall hold a history of the last 100,000 events (first in, first out).
 2. The network door controller shall be equipped with an integrated event functionality, which can be triggered by:
 - a. Tamper detection (Removal of unit cover/tamper front; reader tampering; tilting, vibration)
 - b. Power loss
 - c. Network loss
 - d. Changes in the unit's configuration
 - e. Door
 - f. Event logger
 - g. Hardware
 - h. Input signal
 - i. Schedule
 - j. System
 - k. Time
 - l. Virtual inputs through API
 3. Response to triggers shall include event actions:
 - a. Send notification, using email, HTTP, HTTPS, TCP and SNMP trap
 - b. External output activation
 - c. Displaying status LED
 4. Event functions can be configurable via the web interface.
 5. The network door controller shall be able to respond to triggers from other products on the same network, and be able to generate response in other products as a result of a triggered event.
 - e. Protocol
 1. The network door controller shall incorporate support for at least IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS, HTTP/2, TLS, QoS Layer 3 DiffServ, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, ARP, SSH, NTCIP, SIP, LLDP, CDP, MQTT v3.1.1, Syslog, Link-Local address (ZeroConf).
 2. The SMTP implementation shall include support for SMTP authentication.
 - f. Time and Date
 1. To ensure accuracy, the network door controller shall accept external time synchronization from an NTP (Network Time Protocol) server.
 2. The network door controller shall support the definition of holidays/exception-days in the calendar configured through a third-party software.
 3. The network door controller shall support time schedules to be defined by a third-party software, only limited in number by the network door controllers' total memory usage.
 - g. Security
 1. The network door controller shall support the use of HTTPS and TLS, providing the ability to upload signed certificates to encrypt and secure authentication and communication.
 2. All communication between network door controller and the access control application shall be done using at least 256-bit AES encryption.
 3. The network door controller shall support IEEE 802.1X authentication.
 4. The network door controller shall provide support for restricting access to pre-defined IP addresses only, so-called IP address filtering.
 5. The network door controller shall restrict access to the built-in web server by usernames and passwords.
 - h. System integration
 1. The network door controller shall be fully supported by an open and published API, which shall provide necessary information for integration of functionality into third-party applications.
 2. The camera shall conform to ONVIF profile A as defined by the ONVIF Organization.
 3. The camera shall conform to ONVIF profile C as defined by the ONVIF Organization.
 - i. Installation and maintenance
 1. The network door controller shall be supplied with Windows-based management software which allows the assignment of IP addresses, upgrade of firmware of the network door controller.
 2. The network door controller shall contain a built-in web server making hardware configuration available to multiple clients in a standard operating system and browser environment using HTTP, without the need for additional software.
 3. The network door controller shall support the use of SNMP-based management tools according to SNMP v1, 2c, 3 / MIB-II.
 4. The network door controller shall allow updates of the software (firmware) over the network, using FTP or HTTP.
 5. The network door controller shall accept external time synchronization from an NTP (Network Time Protocol) server.
 6. The network door controller shall store all customer-specific settings in a non-volatile memory that shall not be lost during power cuts or soft reset.
 - j. Access log

PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

1. The network door controller shall provide an event history of the last 250 000 events, stored locally in the unit. Such transaction history shall be automatically uploaded to the server once communication has been restored.
2. The network door controller shall provide a log file, containing information about the 250 latest connections and access attempts since the unit's latest restart. The file shall include information about the connecting IP addresses and the time of connecting.
- k. Network door controller diagnostics
 1. The network door controller shall be equipped with LEDs, capable of providing visible status information. LEDs shall indicate the network door controller's operational status and provide information about communication with receiver, the network status and the network door controller status.
 2. The network door controller shall be equipped with LED, capable of indicating over-current protection.
 3. The network door controller shall be monitored by a Watchdog functionality, which shall automatically re-initiate processes or restart the unit if a malfunction is detected.
 4. The network door controller shall through its web interface and API provide the current status of all inputs and outputs, and provide an ability to force-control outputs for test purpose.
- l. Hardware interfaces
 1. Door status inputs
 - a. The network door controller shall through color-coded detachable terminals be equipped with four (4) door inputs.
 - b. The network door controller shall through color-coded detachable terminals be equipped with two (2) form C relays for lock control, with the possibility to source with 12 or 24 V from the network door controller or sourcing from external power supply/dry contact.
 - c. The network door controller shall through color-coded detachable terminals be equipped with four (4) configurable inputs/outputs for auxiliary equipment and two (2) configurable input/output for external equipment, supporting max 30 V DC.
 2. Readers
 - a. The network door controller shall through color-coded detachable terminal blocks be able to support two wired readers, either communicating using a Wiegand interface or a OSDP over RS-485 half-duplex.
 3. Inputs/Outputs
 - a. The network door controller shall through detachable terminal blocks provide:
 1. Six ports that can either be configured as digital (alarm) inputs or digital outputs, supporting max 30 V DC. When used as input, it should be configured to respond to normally open (NO) or normally closed (NC) dry contacts.
 2. All alarm points shall be individually annunciated upon any change of state. Alarm contacts shall not be connected in parallel or series in zones, unless specifically shown on the contract drawings or stated herein. Double doors with alarm contacts on each leaf of the double door unit may be wired in series, for that double door unit.
 4. Network interface
 - a. The network door controller shall be equipped with one 10BASE-T/100BASE-TX Ethernet-port using a RJ45 connector and shall support auto negotiation of network speed and transfer mode (full and half duplex).
- m. Enclosure
 1. The network door controller shall be manufactured with a repaintable aluminum enclosure and be fitted with tamper switchers and concealable cable entries.
- n. Power
 1. The network door controller shall have the following power requirements
 - a. 10,5–28 V DC, max 36 W
 - b. Power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4
 - c. 12 V DC as backup
 2. The network door controller shall be able to provide the following power to doors and accessories
 - a. 2x relay NO/NC, max 2 A DC for accessories and relays
 - b. 2x 12/24 V DC, max 24 W for door lock
 3. The network door controller shall, when operating on DC-power, be able to provide 1800 mA at 12 V to connected devices.
 4. The network door controller shall, when operating via PoE Class 4, be able to provide 900 mA at 12 V to connected devices.
 5. The network door controller shall be able to rely on a separate battery power input without manual intervention when the primary power source fails.
- o. Environmental
 1. Operate in a temperature range of -40° C to 55° C (-40° F to 131° F).
 2. Operate in a humidity range of 20–85% RH (non-condensing).
- B. Multi-Tech 125 kHz/ 13.56 MHz Reader
 1. The specified product shall meet or exceed the following design specifications:
 - a. The reader shall be manufactured with an IP65 and NEMA 4X-rated, IK07 plastic casing.
 - b. The reader shall be equipped with an RS-485 - OSDP port for communication with controllers.
 - c. The reader shall be equipped with LED indicators for status information.
 2. The specified product shall meet or exceed the following performance specifications:
 - a. Reading technology
 1. The reader shall support the legacy 125 kHz reading technologies.
 2. The reader shall support the following generic 13.56 Mhz reading technologies:
 - a. MIARE Classic
 - b. MIFARE Plus (Level 1)

PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

- c. MIFARE DESFire EV1 and EV2
- 3. The reader shall support a reading distance of at least 30-40 mm.
- b. Reader functionality
 - 1. The reader shall support the following forms of authentication:
 - a. Card/tag
 - 1. Access granted
 - 2. Access denied
 - b. The reader shall provide the following visual status information:
 - 1. RGB LED
 - 2. Buzzer
 - c. Protocol
 - 1. The reader shall incorporate support for at least Open supervised device protocol (OSDP).
 - d. Security
 - 1. The reader shall support the following:
 - a. EAL 6+ Certified Secure Element Hardware
 - b. Built-in tamper switch for detecting both open casing and removal from wall
 - 2. Firmware support
 - a. The manufacturer must provide firmware with long-term support that only contains corrections for critical bugs, security flaws and performance issues.
 - b. The device should maintain high-level cybersecurity without introducing any significant functional changes or affecting any existing integrations.
 - e. Hardware interfaces
 - 1. The reader shall be equipped with a 4-pin 26-18 AWG terminal block, providing power and one RS-485 serial port to the controller.
 - f. Enclosure
 - 1. The camera shall:
 - a. Be manufactured with an IP65 and NEMA 4X-rated, IK07 plastic casing, hard-coated scratch- and impact-resistant front.
 - g. Power
 - 1. The reader shall utilize
 - a. 12-24 V DC
 - h. Environmental
 - 1. The reader shall:
 - a. Operate in a temperature range of -30 °C to 65 °C (-22 °F to 149 °F)
 - b. Operate in a humidity range of 10-100% RH (condensing).
- C. Network I/O Relay Module
 - 1. The specified product shall meet or exceed the following design specifications:
 - AXIS A9210 Network I/O Relay Module
 - Configurable I/Os DC output: 12 V, 50 mA
 - I/O: 2x I/O (I/O 1, I/O 2), configurable inputs or outputs
 - Digital input: 0 to max 30 V DC, possible to supervise between 0–12 V (4 states)a
 - Programmable end-of-line resistors, 1 K, 2.2 K, 4.7 K and 10 K, 1%, ¼ watt standard
 - Digital output: Open drain, 0 to max 30 V DC, max 100 mA
 - Inputs 5x input (I 1, I 2, I 3, I 4, I 5) 0 to max 30 V DC, possible to supervise between 0–12 V (4 states)a
 - Programmable end-of-line resistors, 1 K, 2.2 K, 4.7 K and 10 K, 1%, ¼ watt standard
 - Outputs 3x output (O 1, O 2, O 3) Open drain, max 30 V, 100 mA each
 - Relays 1x form C relay, NO/NC, max 2 A, max 30 V DC
 - RS485 1x port, half duplex, Modbusd
 - Power
 - Power in: 12 V DC, max 36 W, or Power over Ethernet (PoE) IEEE 802.3at, Type 2 Class 4
 - Power out relay: 12/24 V DC, max 24 W
 - With PoE: max 350 mA at 12 V DC, max 150 mA at 24 V DC, max 4.5 W
 - With PoE+: max 1100 mA at 12 V DC, max 500 mA at 24 V DC, max 14 W
 - With DC in: max 2000 mA at 12 V DC, max 1000 mA at 24 V DC, max 24 W

PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

Power out I/O: 1x 12 V DC output, max 50 mA
Power out RS485: 1x 12 V DC output, max 500 mA
Cable requirements
Wire size for connectors: CSA: AWG 28–16, CUL/UL: AWG 30–14
DC power: AWG 18-16 , qualified for up to 3 m (10 ft)
Relay: AWG 18-16, qualified for up to 30 m (98 ft)
Ethernet and PoE: STP CAT 5e or higher, qualified for up to 100 m (328 ft)
I/Os as inputs: AWG 24, qualified for up to 200 m (656 ft)
RS485: 1 twisted pair with shield, 120 ohm impedance, qualified for up to 1000 m (3281 ft)
System on chip (SoC)
Memory 512 MB RAM, 1 GB Flash
Network
Network protocols
IPv4, IPv6, HTTP, HTTPS, TLS, QoS Layer 3 DiffServ, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMPv1/v2/v3, DHCPv4/v6, SOCKS, SSH, MQTT v3.1.1, Syslog
System integration
Application
Programming
Interface
Open API for software integration, including VAPIX®, metadata and AXIS Camera Application Platform (ACAP); specifications at axis.com/developer-community. ACAP includes Native SDK.
One-click cloud connection
Video management systems
Compatible with AXIS Camera Station, video management software from Axis' Application Development Partners available at axis.com/vms
Event conditions Device status: IP address blocked, IP address removed, new IP address, network lost, system ready, movement detected
I/O: digital input, manual trigger, virtual input
MQTT: subscribe
Scheduled and recurring: schedule
Event actions MQTT: publish
Notification: HTTP, HTTPS, TCP and email
SNMP traps: send, send while the rule is active
Status LED
Approvals
Product markings UL/cUL, KC, EAC, VCCI
Supply chain TAA compliant
EMC CISPR 35, CISPR 32 Class A, EN 55035, EN 55032 Class A, EN 50130-4, EN 61000-6-1, EN 61000-6-2
Australia/New Zealand: RCM AS/NZS CISPR 22 Class A
Canada: ICES-3(A)/NMB-3(A)
Japan: VCCI Class A
Korea: KC KN32 Class A, KC KN35
USA: FCC Part 15 Subpart B Class A
Safety CAN/CSA C22.2 No. 62368-1 ed. 3/IEC/EN/UL 62368-1 ed. 3, RCM AS/NZS 62368.1:2022, UL 294
Environment IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78
Cybersecurity
Edge security Software: Signed firmware, brute force delay protection, digest authentication, password protection
Hardware: Axis Edge Vault cybersecurity platform
Secure element (CC EAL 6+), Axis device ID, secure keystore,

PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

secure boot, encrypted filesystem (AES-XTS-Plain64 256bit)
Network security IEEE 802.1X (EAP-TLS)b, IEEE 802.1AR, HTTPS/HSTSb, TLS
v1.2/v1.3b, Network Time Security (NTS), X.509 Certificate PKI,
IP address filtering
Documentation AXIS OS Hardening Guide
Axis Vulnerability Management Policy
Axis Security Development Model
AXIS OS Software Bill of Material (SBOM)
To download documents, go to axis.com/support/cybersecurity/resources
To read more about Axis cybersecurity support, go to
axis.com/cybersecurity
General
Casing Steel
Color: white NCS S 1002-B
Mounting Wall mount
DIN rail mount
Connectors Network: Shielded RJ45 10BASE-T/100BASE-TX/1000BASE-T PoE
I/O: Terminal blocks for DC power, inputs/outputs, relay.
Detachable and color coded connectors for ease of installation.
Wire size for connectors: CSA: AWG 28–16, CUL/UL: AWG 30–14
Operating
conditions
-40 °C to 55 °C (-40 °F to 131 °F)
Conditional maximum temperature: 70 °C (158 °F)
UL 294: 0 °C to 55 °C (32 °F to 131 °F)
Humidity: 10–85% RH (non-condensing)
Storage
conditions
Temperature: -40 °C to 70 °C (-40 °F to 158 °F)
Humidity: 5–95% RH (non-condensing)
Dimensions For the overall product dimensions, see the dimension drawing
in this datasheet.
Weight 466 g (1 lb)
Box content I/O module, installation guide, connector kit (mounted),
grounding kit
Optional
accessories
AXIS TA1901 DIN Rail Clip
AXIS TA1902 Access Control Connector Kitd
AXIS T98A15-VE Surveillance Cabinetd
AXIS TQ1808-VE Surveillance Cabinetd
AXIS TA9001 Wall Mount Bracket
AXIS 30 W Midspan
AXIS 30 W Midspan AC/DCd
AXIS T8006 PS12d
For more accessories, go to axis.com/products/axis-a9210
System tools AXIS Site Designer, AXIS Device Manager, product selector,
accessory selector
Available at axis.com
Languages English, German, French, Spanish, Italian, Russian, Simplified
Chinese, Japanese, Korean, Portuguese, Polish, Traditional
Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai,
Vietnamese
Warranty 5-year warranty, see axis.com/warranty
Part numbers Available at axis.com/products/axis-a9210#part-numbers
Sustainability
Substance
control
PVC free, BFR/CFR free in accordance with JEDEC/ECA Standard
JS709
D. Strike with Latchbolt and Strike Monitoring

PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

1. The specified product shall meet or exceed the following design specifications:
h.e.s 9600 Series Surface Mounted Electric Strike

The 9600 Series Electric Strike is a windstorm resistant, surface mounted electric strike designed to accommodate rim exit devices with a 3/4" throw Pullman latchbolt. All components are completely encased within its 3/4" thick stainless steel housing, so no cutting on the frame is required for installation. Simply place the electric strike on the surface of the frame, align it with the exit latchbolt and install. Adjustments have never been easier as the base is now separate from the cover. It is field selectable for fail secure or fail safe operation, and for 12 or 24 VDC.

- The 9600 is a surface mounted electric strike designed with the strength and durability required to exceed the severe forces of ANSI Windstorm testing.

Standard Features

- Installs in metal or wood frames (wood screws not included)
- Separate base and decorative cover for easy adjustments
- Stainless steel construction
- Tamper resistant
- Static strength 2,000 lbs
- Dynamic strength 120 ft-lbs
- Endurance 1 million cycles
- Field selectable fail safe/fail secure
- Horizontal adjustment
- Non-handed
- Internally mounted solenoid
- Accommodates up to 3/4" [19mm] Pullman latch
- SecuriCare five-year, no-fault, no questions asked warranty (Addition of SMART Pac® III extends the warranty to 10 years)

Optional Features

- LBM Latchbolt monitor
- LBSM Latchbolt strike monitor

Accessories

- 9000-116-XXX 1/16" Spacer plate (Available in 613E, 628E, 630 & BSP finishes)
- 9000-108-XXX 1/8" Spacer plate (Available in 613E, 628E, 630 & BSP finishes)
- 9000-MTK Metal template kit
- SMB Surface mounting box
- 2001M Plug-in bridge rectifier
- 2004M ElectroLynx adapter
- 2005M3 SMART Pac III
- 2006M Plug-in buzzer
- 9000-ASB-XXX Aluminum Spacer Bracket (available 613E, 628E, 630 & BSP finis)

E. Magalock with BondSTAT Monitor

1. DM62 Magalock with BondSTAT Monitor

Environmental

- Maximum Operating Temperature (°F) : 140
- Minimum Operating Temperature (°F) : -40

Electrical

- Current 12v DC (mA) : 250
- Current 24v DC (mA) : 150
- Voltage : 12/24

Strength & Durability

- Holding Force (lbs) : 1200
- Grade : Grade 2

Weights & Dimensions

- Magnet Depth (in) : 2.75
- Magnet Height (in) : 3
- Magnet Length (in) : 22
- Shipping Weight (lbs) : 16

Ratings

- Outdoor Rated : No
- Fire Rated : Yes
- Preload Capable : No

PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

F. Time Delay Module

1. The specified product shall meet or exceed the following design specifications:

Altronix 6062 Timer Multi-Purpose, 12/24VDC 1 Second to 60 Minutes, Board

Input: • 12VDC or 24VDC operation is selectable. Current Draw: • Stand-by: 3mA, Relay energized: 40mA. Relay: • Selectable relay activation at the start or end of the timing cycle. • One (1) second momentary relay activation at the end of the timing cycle (eliminates the need to use two (2) timers for this function). Visual Indicators: • LED indicates relay is energized. Electrical: • Operating temperature: -20° C to 49° C ambient. Features: • Triggers via positive DC (+) voltage, dry contact closure, or removal of contact closure. • Quick and extremely accurate time range adjustment from 1 second to 60 minutes. • Built-in reset feature that cancels timing cycle. • Repeat (flasher/pulse) mode. Mechanical: • Snap Trac compatible (order Altronix model #ST3). • Board Dimensions (L x W x H approx.): 3" x 2.5" x 0.75" (76.2mm x 63.5mm x 19.05mm). • Product weight (approx.): 0.1 lb. (0.05 kg). • Shipping weight (approx.): 0.15 lb. (0.07 kg).

G. Door Closure Contacts:

1. The specified product shall meet or exceed the following design specifications:

1) ASSA ABLOY DPS-W DPS-M Door Position Switch:

DPS-W Concealed Door Position Switch for Wood Doors Both components require drilling a 3/4" [19mm] diameter hole in the door and frame directly opposite one another. The DPS-W style is a Normally Closed switch (SPST). The distance depends on the door type and gap between the door and frame but is in the 1/2"-3/4" [12-18mm] range. Includes a magnetic switch and a cylindrical permanent magnet. DPS-M Concealed Door Position Switch for Metal Doors Both components require drilling a 3/4" [19mm] diameter hole in the door and frame directly opposite one another. The large magnet is needed to overcome the shielding effect of a steel door. The DPS-M style is a Normally Closed switch (SPST). The distance depends on the door type and gap between the door and frame but is in the 1/2"-3/4" [12-18mm] range. Includes a magnetic switch and a cylindrical permanent magnet.

2) GRI SURFACE MOUNT DOOR CONTACTS 29A

1. 29A HIGHLIGHTS

2. Lifetime warranty against workmanship, material and factory defects
3. UL and ULC approved
4. Side mounted screw terminals on 29 series
5. Standard gap up to 1 inch, 5/8 inch on steel
6. Wide gap up to 1 1/2 inch, 3/4 inch on steel
7. Extra wide gap up to 2 inch, 1 inch on steel
8. Spacers, covers and screws Included
9. Private labeling on request
10. Built-in E.O.L. resistors and diodes available on request
11. Switches or magnet only are available separately
12. Supervisory loop or dummy terminals available
13. Maximum switching current 400 mA
14. Form A or N/O

H. Audio-visual network alerter

1. The specified product shall meet or exceed the following design specifications:

- a. The strobe siren shall operate on an open source and Linux-based platform, and include a built-in web server.
- b. The strobe siren shall be manufactured with a metal (aluminum) and plastic casing.
- c. The strobe siren shall be manufactured with an IP66-, NEMA 4X- and IK10-rated casing.

2. The specified product shall meet or exceed the following performance specifications:

a. Transmission

1. The strobe siren shall allow for video to be transported over:

- a. HTTP (Unicast)
- b. HTTPS (Unicast)
- c. RTP (Unicast & Multicast)
- d. RTP over RTSP (Unicast)
- e. RTP over RTSP over HTTP (Unicast)

b. Audio

1. The strobe siren shall have a max sound pressure level of >110 db, 1 m at 3.4 kHz and a coverage pattern of 150 degree coaxial at 2 kHz.

c. Illumination LED

1. The strobe siren shall incorporate red, blue, green and amber (RGBA) LEDs as well as white LEDs at max 893 lm (PoE Class 4) or 220 lm (PoE Class 3).

d. User Interface

1. Web server

a. The strobe siren shall contain a built-in web server making siren and light configuration available to multiple clients in a standard operating system and browser environment using HTTP, without the need for additional software.

b. Optional components downloaded from the strobe siren for specific tasks shall be signed by an organization providing digital trust services.

PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

2. Language Specification

a. The strobe siren shall provide a function for altering the language of the user interface, and shall include support for at least 10 different languages.

3. IP addresses

a. The strobe siren shall support both fixed IP addresses and dynamically assigned IP addresses provided by a Dynamic Host Control Protocol (DHCP) server.

b. The strobe siren shall allow for automatic detection of the strobe siren based on UPnP and Bonjour when using a computer with an operating system supporting this feature.

c. The strobe siren shall provide support for both IPv4 and IPv6.

d. The strobe siren shall provide support for IPv6 USGv6.

e. Event conditions

1. The strobe siren shall be equipped with an integrated event functionality:

a. I/O

1. Digital input

2. Manual trigger

3. Virtual inputs

b. Light and siren

1. Health check status

c. Device status

1. Operating temperature failure

2. System ready

3. Network lost

4. IP address

d. MQTT

e. Call

f. Scheduled and recurring

2. Response to triggers shall include event actions:

a. SNMP trap message

b. Light and siren: Profiles, health check

c. Status LED

d. Notification: email, HTTP, HTTPS, TCP

e. I/O: toggle

f. MQTT

g. Calls: SIP calls

h. MQTT publish

f. Protocol

1. The strobe siren shall incorporate support for at least IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPSa, HTTP/2, TLSa, SMTP, mDNS (Bonjour), UPnP®, SNMP v1/v2c/v3 (MIB-II), DNS/DNSv6, DDNS, NTP, NTS, RTSP, RTP, SRTP/RTSPS, TCP, UDP, IGMPv1/v2/v3, RTCP, DHCPv4/v6, SSH, SIP, LLDP, CDP, MQTT, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf).

2. The SMTP implementation shall include support for SMTP authentication.

g. Security

1. The strobe siren shall support the following:

a. Secure web browsing

1. The use of HTTPS and TLS, providing the ability to upload signed certificates to encrypt and secure authentication and communication of both administration data and video streams.

2. Restrict access to the built-in web server by usernames and passwords at three different levels.

b. Certificate management

1. Provide centralized certificate management, with both pre-installed CA certificates and the ability to upload additional CA certificates. The certificates shall be signed by an organization providing digital trust services.

c. Enhanced security features

1. The use of signed firmware validates the firmware's integrity before accepting to install it.

2. The use of a cryptographically verifiable hardware module where a collection of certificates, required to verify device identification, is installed.

3. The collection of certificates (using IEEE 802.1AR) proves that the device and its firmware are authentic and produced by the manufacturer.

4. The product shall include a tamper-resistant hardware module, certified to at least Common Criteria EAL6+.

5. The use of a secure boot process, based on the use of signed firmware, ensures that the camera can boot only with authorized firmware.

6. The use of signed video (adding cryptographic checksum to H.264 videos signed by the manufacturer's secured device ID) provides support for validating the video's authenticity and origin.

d. Authentication

PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

1. IEEE 802.1x (EAP-TLS, PEAP-MSCHAPv2) authentication.
2. Restrict access to pre-defined IP addresses, commonly known as IP address filtering.
- e. Brute force delay protection
2. Firmware support
 - a. The manufacturer should provide a Software Bill of Material (SBOM) for each product firmware in machine-readable format (CycloneDX, SPDX) that contains information about the software composition of the device's operating system, publicly available for download.
 - b. The manufacturer must provide firmware with long-term support that only contains corrections for critical bugs, security flaws and performance issues.
 - c. The device should maintain high-level cybersecurity without introducing any significant functional changes or affecting any existing integrations.
 - h. System integration
 1. The strobe siren shall be fully supported by an open and published API (Application Programmers Interface), which shall provide necessary information for integration of functionality into third-party applications.
 2. Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX
 - i. Analytics
 1. The strobe siren shall provide a platform allowing the upload of third-party applications into the strobe siren.
 - j. Installation and maintenance
 1. The strobe siren shall be supplied with Windows-based management software which allows the assignment of IP addresses, upgrade of firmware and backup of the strobe sirens' configuration.
 2. The strobe siren shall support the use of SNMP-based management tools according to SNMP v1, 2c & 3 / MIB-II.
 3. The strobe siren shall allow updates of the software (firmware) over the network, using HTTP.
 4. The strobe siren shall store all customer-specific settings in a non-volatile memory that shall not be lost during power cuts or soft reset.
 5. The strobe siren shall accept external time synchronization from an NTP (Network Time Protocol) server.
 - k. Access log
 1. The strobe siren shall provide a log file, containing information about the 250 latest connections and access attempts since the unit's latest restart. The file shall include information about the connecting IP addresses and the time of connecting.
 2. The strobe siren shall provide a connection list of all currently connected viewers. The file shall include information about connecting IP address, time of connecting and the type of stream accessed.
 - l. Strobe siren diagnostics
 1. The strobe siren shall be equipped with LEDs, capable of providing visible status information. LEDs shall indicate the strobe siren's operational status and provide information about power, communication with receiver, the network status and the strobe siren status.
 2. The strobe siren shall be monitored by a Watchdog functionality, which shall automatically re-initiate processes or restart the unit if a malfunction is detected.
 3. The strobe siren shall send a notification when the unit has rebooted and all services are initialized.
 - m. Hardware interfaces
 1. Network interface
 - a. The strobe siren shall be equipped with one 10BASE-T/100BASE-TX Ethernet-port using a RJ45 connector and shall support auto negotiation of network speed (100 MBit/s and 10 MBit/s) and transfer mode (full and half duplex).
 2. Inputs/Outputs
 - a. The strobe siren shall be equipped with two configurable I/O ports, accessible via a removable terminal block. These inputs/outputs shall be configurable to respond to normally open (NO) or normally closed (NC) dry contacts. The output shall be able to provide 12 V DC, 50 mA.
 3. Power
 - a. The strobe siren shall be equipped with a removable terminal block providing connectivity for external power.
 - n. Enclosure
 1. The strobe siren shall:
 - a. Be manufactured with an IP66-, NEMA 4X- and IK10-rated aluminum and plastic casing.
 - o. Power
 1. The strobe siren shall provide power over Ethernet (PoE) IEEE 802.3at Type 2 Class 4
 - a. Max: 25.5 W
 - b. Typical: 1.3 W
 2. The strobe siren shall provide power over Ethernet (PoE) IEEE 802.3af/802.3at Type 1 Class 3
 - a. Max: 12.95 W
 - b. Typical: 1.3 W
 - p. Environmental
 1. The strobe siren shall:
 - a. Operate in a temperature range of -40 °C to 60 °C (-40 °F to 140 °F)
 - b. Operate in a humidity range of 10–100% RH (condensing).

PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

I. Request To Exit

1. The specified product shall meet or exceed the following design specifications:
Bosch DS160 High Performance Request-to-Exit Motion Sensor Sounder, Light Gray
DS160 | DS-DS160

2.04 CERTIFICATIONS AND STANDARDS

A. General abbreviations and acronyms

1. ABR: Average Bit Rate
2. AGC: Automatic gain control
3. AES: Advanced Encryption Standard
4. API: Application Programming Interface
5. Aspect ratio: A ratio of width to height in images
6. Bit Rate: The number of bits/time unit sent over a network
7. Bonjour: Enables automatic discovery of computers, devices, and services on IP networks.
8. DHCP: Dynamic Host Configuration Protocol
9. DNS: Domain Name System
10. EIS: Electronic Image Stabilization
11. FPS: Frames per Second
12. FTP: File Transfer Protocol
13. SFTP: Secure File Transfer Protocol
14. H.264 (Video Compression Format)
15. H.265 (Video Compression Format)
16. HSMS: Hosted Security Management System (SaaS PACS Application)
17. IEEE 802.1x: Authentication framework for network devices
18. IP: Internet Protocol
19. IR light: Infrared light
20. ISO: International Standards Organization
21. JPEG: Joint Photographic Experts Group (image format)
22. LAN: Local Area Network
23. LED: Light Emitting Diode
24. LPR: License Plate Recognition
25. Lux: A standard unit of illumination measurement
26. MBR: Maximum Bit Rate
27. MPEG: Moving Picture Experts Group
28. Multicast: Communication between a single sender and multiple receivers on a network
29. NTP: Network Time Protocol
30. NTSC: National Television System Committee – a color encoding system based on 60Hz
31. ONVIF: Global standard for the interface of IP-based physical security products
32. PACS: Physical Access Control System
33. PAL: Phase Alternating Line – a color encoding system based on 50Hz
34. PoE: Power over Ethernet (IEEE 802.3af/at) standard for providing power over network cable
35. Progressive scan: An image scanning technology which scans the entire picture
36. PTZ: Pan/Tilt/Zoom
37. QoS: Quality of Service
38. RAID: Redundant Array of Independent Disks
39. RMD: Radar Motion Detection
40. RPC: Remote Procedure Call
41. SaaS: Software as a Service
42. SIP: Session Initiation Protocol
43. SMTP: Simple Mail Transfer Protocol
44. SMPTE: Society of Motion Picture and Television Engineers
45. SNMP: Simple Network Management Protocol
46. SSL: Secure Sockets Layer
47. TCP: Transmission Control Protocol
48. TLS: Transport Layer Security
49. Unicast: Communication between a single sender and single receiver on a network
50. UPnP: Universal Plug and Play
51. UPS: Uninterruptible Power Supply
52. VBR: Variable Bit Rate
53. VMS: Video Management System
54. WDR: Wide dynamic range

B. Approvals and standards

1. AXIS A1610

PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

- a. The specified unit shall carry the following EMC approvals:
 - 1. EN 55032 Class A
 - 2. EN 50130-4
 - 3. EN 61000-3-2
 - 4. EN 61000-3-3
 - 5. EN 55035
 - 6. EN 61000-6-1
 - 7. EN 61000-6-2
 - 8. FCC Part 15 Subpart B Class A
 - 9. ICES-3(A)/NMB-3(A)
 - 10. VCCI Class A
 - 11. RCM AS/NZS CISPR 32 Class A
 - 12. KS C 9832 Class A
 - 13. KS C 9835
- b. The specified unit shall meet the following product safety standards:
 - 1. IEC/EN/UL 62368-1 ed. 3
 - 2. CAN/CSA C22.2 No. 62368-1 ed. 3
 - 3. UL 294
- c. The specified unit shall meet the following standards
 - 1. Networking:
 - a. IEEE 802.3at (Power over Ethernet Plus)
 - b. IEEE 802.1x (EAP-TLS) (Authentication)
 - c. IPv4 (RFC 791)
 - d. IPv6 (RFC 2460)
 - e. QoS – DiffServ (RFC 2475)
 - 2. Mechanical Environment:
 - a. EN 50581
 - 2. AXIS D4100–E Network Strobe Siren
- a. The specified unit shall carry the following EMC approvals:
 - 1. EMC CISPR 32 Class A
 - 2. EN 55032 Class A
 - 3. EN 55035
 - 4. EN 50130-4
 - 5. EN 61000-6-1
 - 6. EN 61000-6-2
 - 7. FCC Part 15 Subpart B Class A
 - 8. ICES-3(A)/NMB-3(A)
 - 9. KS C 9832 Class A
 - 10. KS C 9835
 - 11. RCM AS/NZS CISPR 32 Class A
 - 12. VCCI Class A
- b. The specified unit shall meet the following product safety standards:
 - 1. CAN/CSA-C22.2 No. 60950-22
 - 2. CAN/CSA C22.2 No. 62368-1
 - 3. IEC/EN/UL 62368-1
 - 4. IEC/EN/UL 60950-22
 - 5. IEC 62471
- c. The specified unit shall meet the following standards
 - 1. Networking:
 - a. IEEE 802.3af/802.3at (Power over Ethernet)
 - b. IEEE 802.1x (EAP-TLS, PEAP-MSCHAPv2) (Authentication)
 - c. IPv4 (RFC 791)
 - d. IPv6 (RFC 2460)
 - e. NIST SP500-267
 - 2. Mechanical Environment:
 - a. IEC 60068-2-1
 - b. IEC 60068-2-2
 - c. IEC 60068-2-6
 - d. IEC 60068-2-14
 - e. IEC 60068-2-27
 - f. IEC 60068-2-78
 - g. IEC/EN 60529 IP66

**PENN CAMBRIA SCHOOL DISTRICT
201 6th Street, Cresson, Pennsylvania 16630**

2023-2024 Door Controller/Alarm Systems and Installation

Instructions/Specifications/Bid Form

- h. IEC/EN 62262 IK10
- i. NEMA 250 Type 4X
- j. MIL-STD-810H (Method 501.7, 502.7, 506.6, 507.6)
- 3. Railway environment:
 - a. EN 50121-4
 - b. IEC 62236-4

INSTRUCTIONS FOR NON-COLLUSION AFFIDAVIT

1. This Non-Collusion Affidavit is material to any contract awarded pursuant to this bid. According to the Pennsylvania Antbid-Rigging Act, 73 P.S. 1611 et seq., governmental agencies may require Non-Collusion Affidavits to be submitted together with bids.
2. This Non-Collusion Affidavit must be executed by the member, officer or employee of the bidder who makes the final decision on prices and the amount quoted in the bid.
3. Bid rigging and other efforts to restrain competition, and the making of false sworn statements in connection with the submission of bids are unlawful and may be subject to criminal prosecution. The person who signs the Affidavit should examine it carefully before signing and assure himself or herself that each statement is true and accurate, making diligent inquiry, as necessary, of all other persons employed by or associated with the bidder with responsibilities for the preparation, approval or submission of the bid.
4. In the case of a bid submitted by a joint venture, each party to the venture must be identified in the bid documents, and an Affidavit must be submitted separately on behalf of each party.
5. The term “complementary bid” as used in the Affidavit has the meaning commonly associated with that term in the bidding process, and includes the knowing submission of bids higher than the bid of another firm, any intentionally high or non-competitive bid, and any other form of bid submitted for the purpose of giving a false appearance of competition.
6. Failure to file an Affidavit in compliance with these instructions will result in disqualification of the bid.

NON-COLLUSION AFFIDAVIT

CONTRACT/BID: 2023-2024 Door Controller/Alarm Systems and Installation

STATE OF _____ **COUNTY OF** _____

I state that I am _____ of _____
(Title) (Name of Company/Firm)

and that I am authorized to make this affidavit on behalf of my firm and its owners, directors, and officers. I am the person responsible in my firm for the price(s) and the amount of this bid.

I state that:

1. The price(s) and amount of this bid have been arrived at independently and without consultation, communication or agreement with any other contractor, bidder or potential bidder.
2. Neither the price(s) nor the amount of this bid, and neither the approximate price(s) nor approximate amount of this bid, have been disclosed to any other firm or person who is a bidder or potential bidder, and they will not be disclosed before bid opening.
3. No attempt has been made or will be made to induce any firm or person to refrain from bidding on this contract, or to submit a bid higher than this bid, or to submit any intentionally high or non-competitive bid or other form of complementary bid.
4. The bid of my firm is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary or other non-competitive bid.
5. _____ (name of company/firm), its affiliates, subsidiaries, officers, directors and employees are not currently under investigation by any governmental agency and have not in the last four years been convicted or found liable for any act prohibited by State or Federal law in any jurisdiction, involving conspiracy or collusion with respect to bidding on any public contract, except as follows:

I state that _____ (name of company/firm) understands and acknowledges that the above representations are material and important and will be relied on by **PENN CAMBRIA SCHOOL DISTRICT** in awarding the contract(s) for which this bid is submitted.

I understand and my firm understands that any misstatement in this affidavit is and shall be treated as fraudulent concealment from **PENN CAMBRIA SCHOOL DISTRICT** of the true facts relating to the submission of bids for this contract.

Sworn to and subscribed before me

(Typed Name & Company Position)

this _____ day of _____, 2024

(Signature)

(Notary Public)

My commission expires: _____