

ROSSLARE
SECURITY PRODUCTS

PRODUCT CATALOG



4-5 COMPANY PROFILE

6-7 ACCESS CONTROL PRODUCT SELECTION GUIDE

8-21 CONTROLLERS
AxTraxNG™, ExpansE™, Accessories, Wiegand, Standalone

22-39 READERS
UHF, 13.56 MHz – O2S®, 13.56 MHz – CSN SELECT, 13.56 MHz – MIFARE® 13.56 MHz – MIFARE® Classic EV1, 125 kHz – Rosslare Proximity and goPROX®, PIN Only, Biometric, Desktop, Modules

40-50 CREDENTIALS
UHF Alien Higgs-3 Series, 13.56 MHz MIFARE® Classic EV1, PLUS S, PLUS X, & DESFire EV1, 125 kHz TEMIC & EM Compatible

51-54 SWITCHES
Security Series, General Purpose Industrial Switches, Accessories

55-56 LOCKS
Electromagnetic Locks, Accessories

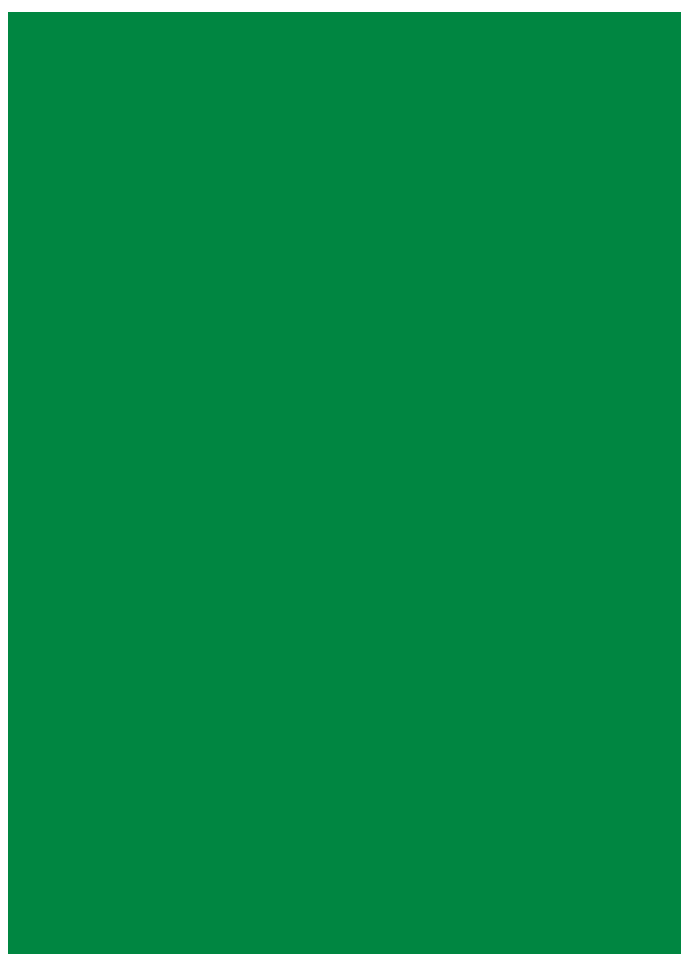
57-59 POWER SUPPLIES

60-62 ACCESSORIES

63 DEMO KITS

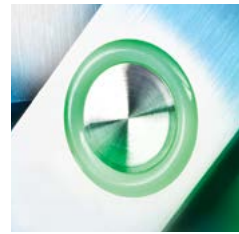
64 ACCESS CONTROL KITS

ACCESS CONTROL



Rosslare Security Products offers a range of cost-effective, sophisticated solutions meeting nearly any access control challenge. Our rich access control product offering includes: networked multi-door controllers; standalone door controllers; convertibles; Proximity/PIN, biometric, and indoor/outdoor readers implementing various technologies and formats; a wide range of accessories, including intelligent power supplies, stylish REX buttons, and magnetic locks; and PC monitoring and configuration programs.

Featuring the latest technologies and industrial design concepts, we are certain you will find the right access solution for your application.

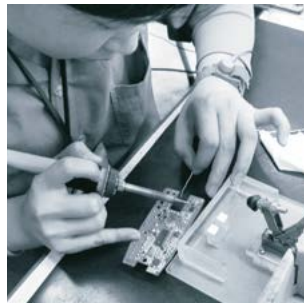


With Rosslare, you receive the

ROSSLARE SECURITY

Rosslare Security Products, a division of Rosslare Enterprises Ltd., manufactures and markets high-quality security products via its worldwide offices and channel partners. Since 1980, Rosslare has offered high-quality systems for enterprise, small business, and residential applications. Our expansive product range features much more than access control solutions and guard patrol management systems; we also offer applications software – such as License Plate Recognition, Time & Attendance, and DVR/Alarm integration.

With Rosslare, you receive the best of all worlds: world-class product engineering and design; professional customer service spanning the globe; and the quality and affordability of a vertically integrated and self-owned manufacturing facility. With our three cost-effective product lines – Access Control, Guard Patrol, and Intrusion – partnering with Rosslare Security is the smart decision.



EXPERIENCE THE DIFFERENCE

Rosslare provides an impeccable level of pre- and post-sale service and support. Whether it's working with you to complete an RFP or helping you upgrade our AxTraxNG™ cross-platform software suite, we give each and every one of our customers personalized attention and accessibility. With more than three decades of manufacturing experience, we continually strive to improve ourselves in order to deliver you the most dependable and highest quality products in the industry. Through Rosslare offices and channel partners, we bring our products and knowledge to you locally, in your language and with the specific feature set that you require.

OEM AND PRIVATE LABEL SERVICES

Rosslare provides OEM and Private Label services – from design to manufacturing – to some of the leading brand names in the security world. Our state-of-the-art, mass volume, 10,000 square meter production facility in Shenzhen meets the strict requirements of the world's most demanding OEM and private label customers.

best of all worlds



INTERNATIONAL STANDARDS AND CERTIFICATIONS

ISO 9001:2008, ISO 14001:2004 and EN ISO 13485:2012/AC:2012

Rosslare Security does not compromise in its commitment to compliance with the most stringent global quality assurance, public safety, and insurance industry standards such as CE, UL, and FCC. The Company's production facility complies with the EU Directive 2002/95/EC on Restriction of Hazardous Substances (RoHS), and we maintain ISO 9001:2008, ISO 14001:2004, and EN ISO 13485:2012/AC:2012 certifications.

ISO 9001 certifies the Company's professional implementation of international quality control standards and operating procedures that define the principles and good practices of manufacturing processes.

ISO 14001 certifies the Rosslare environmental management system that reduces energy use and waste, cuts costs by improving efficiency, meets worldwide legal obligations, and prepares us and our customers for the constantly changing business landscape.

EN ISO 13485:2012/AC:2012 (Medical Devices) certifies Rosslare for the design, development, and manufacturing of customized rechargeable power solutions for medical device applications.

Rosslare Security products have also been tested and certified by the TÜV Rheinland safety and certification group.



• EN ISO 13485

TRAINING AND SUPPORT

Our global Technical Training and Support group provide pre-sales training and post-sales support services out of Hong Kong, Shenzhen, Mumbai, Dallas, Buenos Aires, and our European facility. The Rosslare training and support team prides itself on bringing a wealth of knowledge and expertise to your doorstep, with the explicit goal of helping you meet your technical challenges.

We provide both remote and in-house educational and support services, including on-site customer seminars, webinars, FAQ, and live chat. Our professional team of engineers and technicians are at your service 24/7, possessing the critical training skills and implementing the latest technologies to help you and your customers meet every challenge.

CUSTOMER SATISFACTION

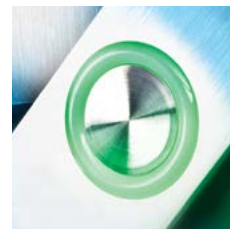
Meeting and exceeding the expectations of our customers is our #1 priority. That is why Rosslare products are designed to be user-friendly, intuitive, and highly reliable. Everyone along the value chain knows to expect ease-of-use and value-for-money when investing in Rosslare products.

ACCESS CONTROL PRODUCT SELECTION GUIDE

Controllers	AxTraxNG™			AC-215, AC-215IP, AC-225, AC-225IP, AC-425, AC-425IP, AC-825IP, AX-NG, AX-AV, AX-AVLPR, AX-TM, MD-D02, MD-D04, MD-IO84	8–12
	ExpansE™			EXP-1032, EXP-2024, EXP-2088, EXP-2016 ME-00, ME-01P14, ME-12P14, ME-14	13–14
	Accessories			MD-W11N/F, MD-W11BP	15
	Wiegand			AC-115, AS-115, AC-015, AC-020, AS-015	16-17
	Standalone	Anti-Vandal		AC-Q41H, AC-Q41HB/HP/SB, AC-Q42H, AC-Q42HB/HP/SB, AC-Q44	18
		Anti-Vandal Piezoelectric		AC-S43, AC-T43	19
		Outdoor Backlit PIN / Proximity & PIN	PIN	AC-F43, AC-G43	20
			Proximity & PIN	AC-F44, AC-G44	20
		Indoor PIN / Proximity & PIN	PIN	AC-A41, AC-B31, AC-C31, AC-D31	21
			Proximity & PIN	AC-A42, AC-B32, AC-C32, AC-D32	21
Readers	UHF			AY-L23, SA-23-B2, SA-23-B4, AY-U900/910, MD-81	22
	13.56 MHz – O2S®			AY-H6270B/AY-H6280B, AY-H6370B/AY-H6380B, AY-G6270B/AY-G6280B, AY-G6370B/AY-G6380B	23
	13.56 MHz – CSN SELECT			AYC-M6355, AYC-H6355, AY-K6255, AY-M6255, AY-H6255, AY-L6255	24
	13.56 MHz – MIFARE® Classic EV1	MIFARE® Contactless Smart Card		AY-H25B, AY-L25B, AY-J25B, AY-K25B, AY-M25B	25
		MIFARE® Contactless Smart Card Read Sector		AY-M26, AY-W6250W/W6260, AY-W6350W/W6360, AY-Q6250/Q6260, AY-Q6350/Q6360	25–27
	125 kHz – Rosslare Proximity & goPROX®	Proximity		AY-HR12B/H12C, AY-LR12B/L12C, AY-JR12B/J12C, AY-KR12B/K12C, AY-MR12B/M12C, AY-E20	28
		Convertible Proximity & goPROX®		AYC-F64, AYC-G64, AYC-M60, AYC-F60, AYC-G60, AYC-E60B, AYC-E60N, AYC-Q60	29-31
		Convertible		AYC-E65BW/E65BG/E65BB, AYC-E60N/B, AYC-T65N, AYC-T65B	30
		Anti-Vandal Proximity		AY-Q12, AYC-Q65, AYC-Q64B, AYC-Q60	31
		Multi-Color		AY-R12	32
		Indoor Proximity		AY-CR11W, AY-CR12W, AY-DR11W, AY-DR12W	33
		Indoor Proximity & PIN		AY-C19M, AY-D19M, AY-F66	33-34
		Long- & Medium-Range Proximity		AY-V12B, AY-V64B, AY-Z12A	35

ACCESS CONTROL PRODUCT SELECTION GUIDE

Readers	PIN Only		AYC-F54, AYC-G54, AYC-E55, AYC-Q54B, AY-S55, AY-T55, AY-C09M, AY-D09M	36–37
	Biometric		AY-B4663, AY-B1663, AY-B3663, AY-B1660, AY-B2660/AYC-B7661, AYC-W6500, AS-W6500	38–39
	Modules		MD-12C, MD-12W	39
	Desktop Readers		DR-12C, DR-6255, DR-6280	39
Credentials	UHF ALIEN HIGGS-3 SERIES			40
	125 kHz TEMIC & EM COMPATIBLE			40
	13.56 MHz MIFARE® Classic EV1, Plus S, Plus X, & DESFire® EV1			41–50
Switches	Security		EX-06, EX-07, EX-16, EX-17, EX-H04, EX-M04, EX-H22, EX-M22, EX-01, EX-02	51–52
	General-Purpose Industrial		PX-13, PX-23, PX-34	53
	Switch Accessories		MP-06, MP-16, MP-J03, MP-H03, MP-M03	54
Locks	EM Locks		LK-M12L, LK-M06L, LK-M03	55–56
	EM Locks Accessories		LA-L12, LA-L06, LA-L03, LA-Z12, LA-Z06, LA-Z03, LA-U12, LA-U03	55–56
Power Supplies			PC-25T, PC-25LT, PS-A25T, PS-C25T, PS-C25TU, PS-C25LT, PS-30F, PS-14, PS-33, PS-C16, PS-C16U, PC-P16, PS-C17, PS-C17U, PC-P17, PS-C18, PC-P18	57–59
Accessories	Card Programmers		CP-R25, CP-R26, AS-B01, CP-R20U	60
			MD-N32, MD-N33, BL-D40, MD-14U, MD-24U, MD-08, MD-08B, MP-Z02, MP-K01, MP-J01, MP-C02, MP-G02	61–62
Demo Kits			DMC-AC225IP, DMC-AYC	63
Access Control Kits			AC-K01E/L, AC-K02E/L, AC-K03, AC-K04E/L, AC-K06E/L, AC-K07E/L, AC-K10, AC-K14E/L, AC-K16C/F/S, AC-K15E/L	64



CONTROLLERS

AXTRAXNG™ PLATFORM



AC-215



- 5,000 users
- Single/dual door

Scalable Networked Access Controller

AC-215IP



- 30,000 users
- Single/dual door

Advanced Scalable Networked Access Controller with Onboard TCP/IP Module

AC-225

Advanced Scalable Networked Access Controller



AC-225IP

Advanced Networked Access Controller with Onboard TCP/IP Module

- 30,000 users
- Single/dual door
- Expandable to 4 doors

AC-425

Advanced Scalable Networked Access Controller



AC-425IP

Advanced Networked Access Controller with Onboard TCP/IP Module

- 30,000 users
- Single/dual door
- Expandable to 8 doors

Major Features

- Suitable for medium-scale to large-scale installations
- Networked up to 1023 panels
- Supports up to 30,000 users and an event history of up to 20,000 entries per controller
- Scalable and flexible – Fits a wide range of applications
- Easy and fast installation
- Powerful and secure
- Car parking management
- Wiegand protocol customization
- 2-user authentication: Card + Card on door for high-level security
- Global antipassback
- Includes integration tools (SDK)
- Available in multiple languages
- 32 time zones and 64 holidays

AC-825IP
Advanced Scalable Networked Access Platform

- Up to 60,000 users
- Supports up to 6 doors – expandable to 10 doors

ME-1515

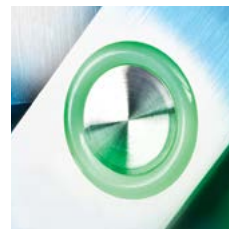
- ME-1515 case for the AC-825IP board and expansions

Major Features

- Suitable for medium-scale to large-scale installations
- Networked up to 1023 panels
- Supports up to 60,000 users and an event history of up to 500,000 entries per controller
- Onboard TCP/IP networking with AES 128-bit data encryption to an AxTraxNG server, bi-directional push communication for enhanced data transmission speed and reliability
- One onboard expansion slot and an additional 12 expansion boards via OSDP (R/S/D/P-805)
 - R-805 – 16 outputs
 - S-805 – 16 inputs
 - D-805 – 4-door expansion
 - P-805 – 16 inputs and 8 outputs
- DIN rail mounting option for space saving
- Revolutionary enclosure with illumination bar that lights up when enclosure is opened, tamper sensing, and power status LED
- C14 power cord for easy power supply to the enclosure
- 256 multi-segmented time zones and 64 holidays

Networked Controllers – Feature Comparison

Specification	AC-215	AC-215IP	AC-225/225IP	AC-425/425IP	AC-825IP
Standby Current Consumption	125 mA	120 mA	80 mA (basic unit)		0.5 A (including 6 readers) 1.2 A with the D-805 (including 10 readers)
Maximum Current Consumption	300 mA		300 mA (basic unit)	300 mA (basic unit)	2.1 A (including 4 readers) 3.9 A with the D-805 (including 10 readers)
Relay Outputs	4 x Form-C, 5 A				6 x Form-C, 5 A
Inputs	4 high-impedance		4		12
Enclosure Dimensions (H x W x D)	264 x 334 x 84.5 mm (10.4 x 13.2 x 3.4 in.)				346 x 404 x 101 mm (13.6 x 15.9 x 4.0 in.)
Weight	3.8 kg (8.4 lb)				4.6 kg (10.1 lb)
Operating Temp. Range	0°C to 49°C (32°F to 120.2°F)				-5°C to 50°C (23°F to 122°F)



EXPANSIONS

MD-D02



2-Reader Expansion

- 2 multi-format reader ports
- 4 supervised, 4-state, dual EOL inputs
- 4 fully-programmable, 5 A Form-C relay outputs
- Optional expansion for AC-225

MD-D04



4-Reader Expansion

- 4 multi-format reader ports
- 4 supervised, 4-state, dual EOL inputs
- 4 fully-programmable, 5 A Form-C relay outputs
- Optional expansion for AC-425

MD-IO84



IO Expansion Card (PCB)

- 8 supervised, 4-state, dual EOL inputs
- 4 fully-programmable, 5 A Form-C relay outputs
- Optional expansion for AC-225, AC-425

R,S,D,P-805



R-805



S-805



D-805



P-805

Specifications	R-805	S-805	D-805	P-805
Enclosure	ME-1515			
Enclosure SMPS	Input: 90 to 265 VAC, 50–60 Hz, Switch mode power management board Output: 12 VDC, 4 A			
PCBA Input Power	12 VDC, 2 A, regulated power management board			
Relays 5 A, Form-C	16	N/A	4	8
Inputs	N/A	16	8	16
Readers (Wiegand+OSDP)	N/A	N/A	4	N/A
Expansion Port	N/A			
Connectivity	OSDP			
Operating Temperature Range	-5°C to 50°C (23°F to 122°F)			
Enclosure Dimensions (H x W x D)	346 x 404 x 101 mm (13.6 x 15.9 x 3.9 in.)			
Enclosure Weight (ME-1515)	4.6 kg (10.1 lb)			
PCBA/Expansion Board Dimensions	175 x 85 mm (6.9 x 3.3 in.)			
PCBA/Expansion Board Weight	150 g (5.3 oz)			

ACCESS CONTROL SOFTWARE

Rosslare's AxTraxNG™ is a complete server-client software management system enabling management of modular networked access control panels. The AxTraxNG management software is user-friendly, intuitive, reliable, and rich in functionality. AxTraxNG integrates and deploys various security, Time & Attendance, and VMS applications with ease. The system integrates the most advanced security technologies with innovative networking capabilities.



PC Client/Server Management Software for Professional Networked Controllers



AX-NG

- User-friendly PC software with intuitive layout reduces the complexity of access control
- Manages user data, photo and information fields, access rights, alarms, strike time, and door mode, all from one central location
- Produces reports from acquired data, such as entry and exit times, as well as alarm types initiated by user, location, and time events
- Car parking management
- Available in multiple languages and date formats
- Compatible with additional video management software modules from Rosslare (ViTrax™)
- Integrates with Hikvision and Dahua
- VMS Compatible



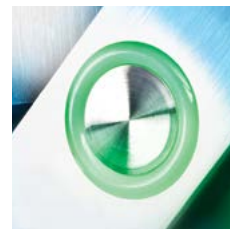
AxTime™ Time & Attendance Client Software



AX-TM

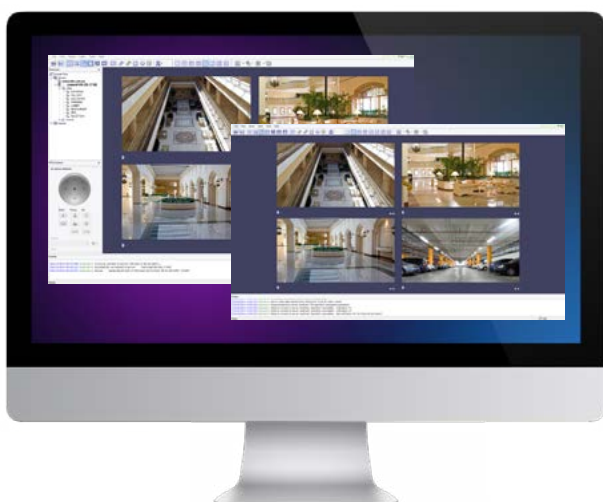
- Communicates directly with the server's database
- Produces reports from acquired data, such as usage reports, attendance records, visitors, and roll calls
- Available in multiple languages
- Password controlled for high level of security. Uses the same permission rights of defined operators as in the AxTraxNG
- User-friendly software with intuitive GUI helps reduce the complexity of installation

ACCESS CONTROL



ViTrax™

A VMS Solution Supporting IP Cameras



AX-AV

- Full video and audio management for third-party cameras
- Scheduled recording and backup management
- Multiple video viewport screens, can be arranged as desired
- Full event integration (inputs, alarms and other system events) with AxTraxNG links
- Multi-lingual support, detailed authorization management, alarm and event handling, and more

ViTrax™ LPR

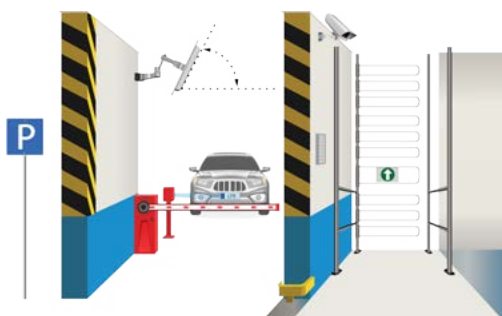
Rosslare LPR technology allows monitoring and controlling of vehicle entry/exit by identifying license plates in various combinations of letters and numbers.

ViTrax LPR (AX-AVLPR) requires ViTrax VMS (AX-AV)* and AxTraxNG (AX-NG)** licenses.



 ViTrax™

 AxTraxNG™



AX-AVLPR

- Efficient license plate recognition with low error rate
- Recognize license plates from multiple countries
- Software camera position adjustment
- Recognition area adjustment to optimize system load
- Lighting condition adaptive algorithm
- Recognized license plates and snapshots are stored for easy viewing
- No imposed limitation on number of cameras

*A VMS solution supporting IP cameras

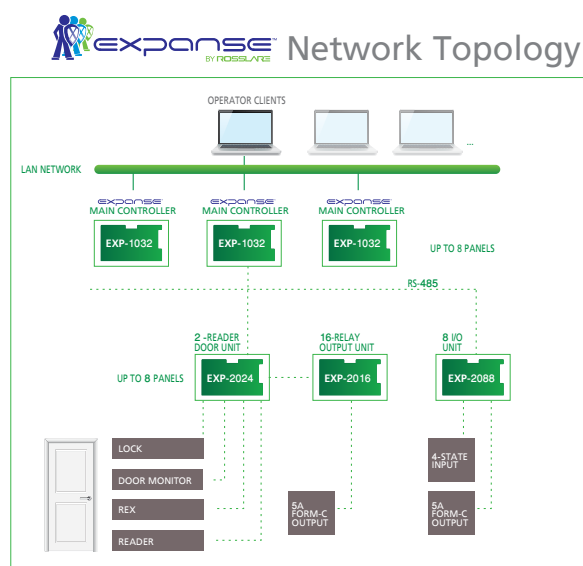
** PC Client/Server Management Software for professional networked controllers

EXPANSE™ PLATFORM

ExpansE™, a distributed architecture access control platform, is designed for low-scale to medium-scale applications. The main controller is physically separated from the secondary units that manage the door elements – readers, locks, Request-to-Exit (REX) buttons, switches, and other I/Os. ExpansE's built-in Web browser and networking capabilities provide faster and easier setup – no software installation and computer configuration are required. This includes a built-in Web server for native networked and Internet environment, a powerful ARM9 architecture-based processor with a built-in Linux operating system, P2P connection between all networked panels, Flash-technology-based Web user interface, and 3-Tier networking. ExClouds™ is a reporting and backup option to the ExpansE platform.

Major Features

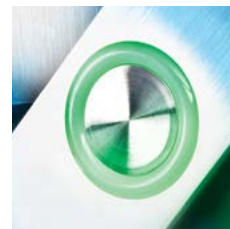
- Distributed architecture
- Web application system management
- User capacity: Up to 128,000 users per controller
- Up to 8 nodes per controller
- Up to 8 doors (in/out), 16 readers per controller
- Up to 64 inputs per controller
- Up to 128 outputs per controller
- Up to 100,000 history events per controller
- TCP/IP and/or RS-485 communication between controller and secondary units
- 50 multi-segmented time zones and 128 holidays
- Up to 8 controllers with intercommunication



CONTROLLER Specification	
Processor	ARM9 based micro-controller
Processor Clock	240 MHz
Ethernet	10/100 Base T RJ-45 Ethernet connection IEEE802.3
Operating System	Embedded Linux
Supported Browsers	IE (version 6.0 and above), Firefox 3.0, Google Chrome, others
SECONDARY UNITS	
EXP-2024, 2-Reader Door Unit	2 readers, 4 inputs, 4 outputs and sounder connections, RS-485 connection
EXP-2088, 8-Input/Output Unit	8 four-state inputs and 8 Form-C outputs, RS-485 connection
EXP-2016, 16-Relay Output Unit	16 Form-C relays, RS-485 connection
HOUSING OPTIONS	
ME-00	Houses the controller and up to 8 additional secondary units in one metal housing, pre-networked, with power supply and battery backup*
ME-01-P14	Self-powered metal enclosure for end units with 7 Ah battery backup*
ME-12-P14	Compact plastic self-powered enclosure for end units with 7 Ah battery backup*
ME-14	Compact plastic enclosure for end units with space for 2 Ah battery backup*

*Batteries not included

ACCESS CONTROL



EXPANSE™ COMPONENTS

EXP-1032



ExpansE™ Networked Controller

EXP-2024



2-Reader Door Unit

EXP-2088



8-Input/Output Unit

EXP-2016



16-Relay Output Unit

WEB-BASED USER INTERFACE



ExpansE's built-in Web browser and networking capabilities provide faster and easier setup – software installation and computer configuration are not required. You control all system configuration options, including real-time monitoring.

Specification	EXP-1032	EXP-2024	EXP-2088	EXP-2016
Operating Voltage	12–16 VDC, 1.5 A	12–16 VDC, 1 A	12–16 VDC, 0.5 A	12–16 VDC, 1 A
Standby Current Consumption	150 mA		100 mA	
Maximum Current Consumption	1200 mA	1 A	500 mA	800 mA
Operating Temperature Range	0°C to 49°C (32°F to 120°F)			

EXPANSE™ HOUSING OPTIONS

ME-00



9-Board Tray Cabinet Housing

ME-01-P14



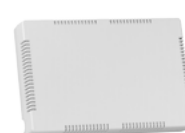
Single-Board Self-Powered Metal Enclosure

ME-12-P14



Single-Board Self-Powered Plastic Enclosure

ME-14



Compact Single-Board Self-Powered Enclosure

NETWORKED ACCESS CONTROL ACCESSORIES

MD-W11N



Wireless Access Control Door Interface Near Unit

MD-W11F



Wireless Access Control Door Interface Far Unit

MD-W11BP



Wireless Access Control Door Interface Power Backup Unit

Available models:

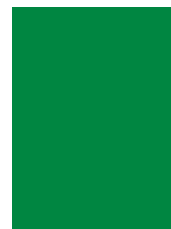
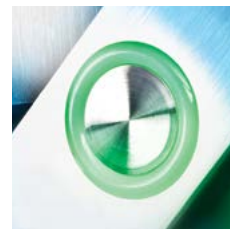
MD-W11FHR Far unit on 868 MHz band

MD-W11FGR Far unit on 433 MHz band

Major Features

- Maximum range of 70 m (230 ft) indoors, up to 300 m (985 ft) outdoors, depending on RF-related environmental conditions
- Overall response time of 500 ms when used with Rosslare's AC-225 controller and readers. Response time depends on RF link quality, the number of doors used, and the response time of the controller and reader.
- Built-in charger for use with MD-W11BP
- Compatible with all of Rosslare's readers and with any third-party units using standard Wiegand format of PIN code and credentials
- Separate sets of terminals for door and controller connections
- Case and wall tamper protection. Tamper events from either near or remote sides are reported using a tamper output on the near unit.

Specification		MD-W11N	MD-W11F	MD-W11BP
Input Voltage	VDC	13.8 VDC from controller	15–24 VDC	N/A
	VAC	N/A	12–24 VAC	N/A
Standby Input Current (12 VDC)		70 mA		N/A
Max. Input Current (12 VDC)		160 mA		N/A
Max. Relay Current		1 A	5 A	N/A
Operating Temperature Range		-10°C to 50°C (14°F to 122°F)		
Operating Humidity Range		0 to 95% (non-condensing)		
Dimensions (H x W x D)		13 x 8.7 x 3.2 cm (5.1 x 3.4 x 1.3 in.)	13 x 8.7 x 3.2 cm (5.1 x 3.4 x 1.3 in.)	13 x 6.9 x 3.4 cm (5.1 x 2.7 x 1.3 in.)
Weight		155 g (5.5 oz)	155 g (5.5 oz)	430 g (15.2 oz) including BT-05 battery



WIEGAND CONTROLLERS

AC-115

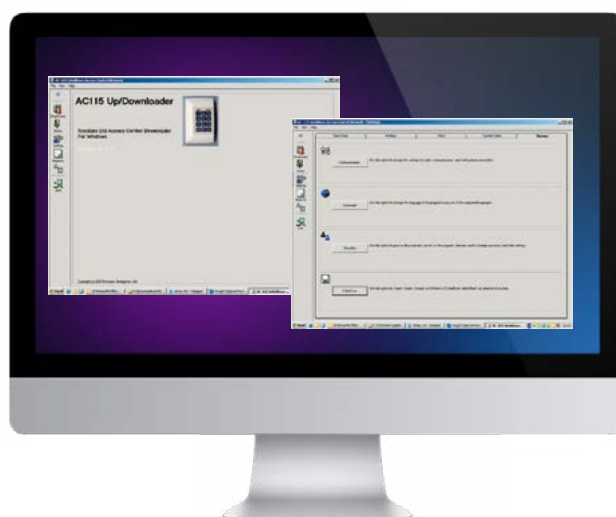


Compact Networked Single-Door Controller

Major Features

- 2 Wiegand 26-Bit readers (In/Out)
- 3 programmable modes: Unlock, Normal, Secure
- 2400 cardholders capacity
- Event history size of up to 2000 events
- 8 programmable time zones and 24 holidays
- Networking: Up to 8 panels (8 doors) over RS-485 network
- Built-in sounder and speaker for chime, door bell, and alarm event notifications
- 2 outputs: 5 A lock relay, 1 A auxiliary
- 2 inputs: REX button and door monitor switch
- Multi-lingual, easy-to-use PC software
 - Full programming, enrollment and setup
 - Database management and maintenance
 - Advanced reporting options: Time & Attendance, access, users and system reports

AS-115



Compact Access Control Management Software

- Lite Management SW for AC-115 Networked Controllers
- Supports setup, monitoring, and database management options
- Easy-to-use, user-friendly Time & Attendance application with extensive reporting capabilities

Specification	AC-115
Power Supply Voltage	16.5 VAC
Power Supply Standby Current	65 mA
Power Supply Maximum Current	120 mA
Relays	Lock: Form-C 5 A, Aux: 1 A
Inputs	2 dry contacts
Dimensions (H x W x D)	134 x 85 x 30 mm (5.3 x 3.3 x 1.2 in.)
Weight	220 g (7.8 oz)
Operating Temperature Range	-31°C to 63°C (-25°F to 145°F)
Cardholder Capacity	2,400
Event Log Size	2,000
Reader Ports	2 x Wiegand 26-Bit
Connectivity	RS-485
Time Zones and Holidays	8/24
Networking Segment (max.)	8

AC-015

Single-Door, 2-Reader Standalone Controller

- Single-Door controller (IN/OUT)
- 5 A lock relay
- 1 A tamper output

AC-020

Dual-Door, 2-Reader Standalone Controller

- Dual-Door Controller (IN/IN)
- 2 x 5 A relays

Major Features

- 500 users
- 3 modes of operation: Normal, Bypass, Secure
- Supports two Wiegand 26-Bit compatible readers
- 2 tri-colored LED
- Built-in bell, chime, and siren sounder
- Case tamper
- Built-in battery charger
- Input for REX button

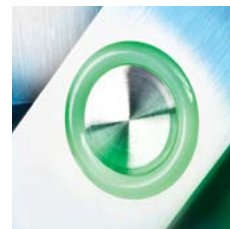
Note: The keypad on the controller is for programming purposes only.

AS-015

Multi-Lingual PC Software

- PC Software to manage user details, reports, and event monitoring

Specification	AC-015	AC-020
Operating Voltage (from a transformer)	16 VAC (1.5 A, 25 VA)	
Current (no attached devices)	Standby: 65 mA, Maximum: 120 mA	
Battery Charger	12 VDC Lead-Acid battery up to 7 AH recommended	
Lock Strike Power Relay	12 VDC constant voltage (1.2 A current limit)	2 x 12 VDC N.O. outputs
Tamper Relay Output	1 A Relay N.C. Dry Contact	N/A
Reader Power Supply	Voltage: 12 VDC, Max. current: 300 mA	
REX	N.O. Dry Contact	2 x N.O. Dry Contact
Operating Temperature Range	-31°C to 63°C (-25°F to 145°F)	
Operating Humidity Range	0 to 95% (non-condensing)	
Dimensions (H x W x D)	134 x 85 x 30 mm (5.3 x 3.4 x 1.2 in.)	
Weight	220 g (7.8 oz)	



STANDALONE CONTROLLERS

ANTI-VANDAL STANDALONE CONTROLLERS

- Programmable blue backlit keypad (selected models)

AC-Q41H



Anti-Vandal PIN Standalone Controller

- Terminal block interface for wiring

AC-Q41HB/HP/SB



Anti-Vandal Backlit PIN Standalone Controller

AC-Q42H



Anti-Vandal Proximity & PIN Standalone Controller

- Terminal block interface for wiring

AC-Q42HB/HP/SB



Anti-Vandal Backlit Proximity & PIN Standalone Controller

AC-Q44



Anti-Vandal Piezoelectric Proximity & PIN Standalone Controller

Specification		AC-Q41H		AC-Q41HB	AC-Q42H	AC-Q42HB	AC-Q41SB	AC-Q42SB	AC-Q44
Input Voltage	VDC	12–24 VDC							
	VAC	12–24 VAC		16–24 VAC		12–24 VAC		16–24 VAC	
Max. Input Current (12 VDC)*		100 mA	130 mA	125 mA	145 mA	130 mA	145 mA	125 mA	
Standby Input Current (12 VDC)*		40 mA	70 mA	65 mA	85 mA	70 mA	85 mA	65 mA	
Tamper Output		Open collector, active Open, max. sink current 30 mA							
Max. Read Range**		N/A		65 mm (2.5 in.)		N/A		65 mm (2.5 in.)	
Max. Relay Current		2 A							
Operating Temperature Range		-20°C to 60°C (-4°F to 140°F)							
Outdoor Usage		Weather-resistant, meets IP54					Weather-resistant, meets IP65		
Dimensions (H x W x D)		120 x 76 x 27 mm (4.7 x 3.0 x 1.1 in.)					120 x 76 x 22 mm (4.7 x 3.0 x 0.9 in.)		
Weight		440 g (15.5 oz)					521 g (18.4 oz)		

* With heater on, the current consumption increases by 480 mA.

**Measured using a Rosslare clamshell proximity card or equivalent. Range also depends on installation environment, reader voltage, and proximity to metal.

ANTI-VANDAL PIEZOELECTRIC STANDALONE CONTROLLERS

- High sensitivity piezoelectric keypad

AC-S43



Anti-Vandal Mullion Piezoelectric
PIN Standalone Controller

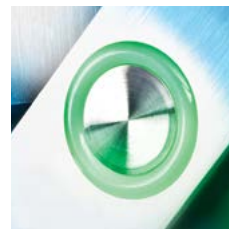
AC-T43



Anti-Vandal Piezoelectric PIN
Standalone Controller

Specification	AC-S43	AC-T43
Input Voltage	VDC	12–24 VDC
	VAC	16–24 VAC
Max. Input Current (12 VDC)	80 mA	75 mA
Standby Input Current (12 VDC)	33 mA	15 mA
Tamper Output	Open collector, active Open, max. sink current 20 mA	
Max. Relay Current	5 A	
Max. Read Range*	N/A	
Operating Temperature Range	-31°C to 63°C (-25°F to 145°F)	
Operating Humidity Range	0 to 95% (non-condensing)	
Outdoor Usage	Weather-resistant, meets IP65	
Dimensions (H x W x D)	150 x 42 x 28 mm	120 x 65 x 27 mm
	(5.9 x 1.7 x 1.1 in.)	(4.7 x 2.6 x 1.1 in.)
Weight	400 g (14.1 oz)	

*Measured using a Rosslare clamshell proximity card or equivalent. Range also depends on installation environment, reader voltage, and proximity to metal.



OUTDOOR BACKLIT PIN / PROXIMITY & PIN CONTROLLERS

AC-F43



Outdoor 3x4 Backlit PIN
Standalone Controller

AC-F44



Outdoor 3x4 Backlit Proximity & PIN
Standalone Controller

AC-G43



Outdoor Mullion 2x6 Backlit PIN
Standalone Controller

AC-G44



Outdoor Mullion 2x6 Backlit Proximity &
PIN Standalone Controller

Major Features

- 500 dual-code users
- 2 x 2 A relays
- 2 inputs with user programmable logic
- 2 tri-colored LED indicators
- 3 user levels and three modes of operation
- Optical case and back tamper protection
- Fully-potted, meets IP65
- Lockout feature on wrong entries (keypad/card tamper)
- Bell, chime, siren, and strobe features available with BL-D40

Specification		AC-F43	AC-F44	AC-G43	AC-G44
Input Voltage VDC	VDC	12–24 VDC			
	VAC	16–24 VAC			
Max. Input Current (12 VDC)		125 mA	160 mA	125 mA	160 mA
Standby Input Current (12 VDC)		75 mA	95 mA	75 mA	95 mA
Tamper Output		Open collector, active Open, max. sink current 20 mA			
Max. Read Range*		N/A	75 mm (3.0 in.)	N/A	80 mm (3.2 in.)
Operating Temperature Range		-30°C to 65°C (-22°F to 150°F)			
Operating Humidity Range		0 to 95% (non-condensing)			
Outdoor Usage		Weather-resistant, meets IP65			
Size (H x W x D)		120.9 x 71.1 x 29.7 mm (4.7 x 2.8 x 1.2 in.)		135.4 x 44.2 x 28.5 mm (5.3 x 1.7 x 1.1 in.)	
Weight		244 g (8.6 oz)		178 g (6.3 oz)	

*Measured using a Rosslare clamshell proximity card or equivalent. Range also depends on installation environment, reader voltage, and proximity to metal.

INDOOR PIN / PROXIMITY & PIN CONTROLLERS

AC-B31, AC-B32



Indoor PIN / Proximity & PIN Standalone Controller

AC-C31, AC-C32



Indoor Mullion PIN / Proximity & PIN Standalone Controller

AC-D31, AC-D32



Indoor PIN / Proximity & PIN Standalone Controller

AC-A41, AC-A42



Indoor PIN / Proximity & PIN Standalone Controller

Major Features

- 125 kHz, ASK type RFID Proximity, Wiegand 26-Bit (selected models)
- 3 user levels and three operation modes
- 2 tri-colored LED and buzzer indicators
- Bell, chime, siren, and strobe features available with BL-D40
- Case tamper
- Input for REX button
- 3.5 A lock relay

Specification	AC-A41	AC-A42	AC-B31	AC-B32	AC-C31	AC-C32	AC-D31	AC-D32
Input Voltage	12–16 VDC/VAC							
Max. Input Current (12 VDC)	100 mA		60 mA	90 mA	60 mA	90 mA	60 mA	90 mA
Standby Input Current (12 VDC)	20 mA	40 mA	20 mA	40 mA	20 mA	40 mA	20 mA	40 mA
Tamper Output	Open collector, active Open, max. sink current 32 mA							
Max. Read Range*	N/A	90 mm (3.5 in.)	N/A	90 mm (3.5 in.)	N/A	70 mm (2.8 in.)	N/A	90 mm (3.5 in.)
Operating Temperature Range	-32°C to 63°C (-25°F to 145°F)							
Dimensions (H x W x D)	122 x 75 x 24 mm (4.8 x 3.0 x 0.9 in.)		92 x 92 x 24 mm (3.6 x 3.6 x 0.9 in.)		130 x 42 x 18 mm (5.1 x 1.7 x 0.7 in.)		122 x 75 x 4 mm (4.8 x 3.0 x 0.9 in.)	
Weight	140 g (4.9 oz)		130 g (4.6 oz)		70 g (2.5 oz)		130 g (4.6 oz)	

*Measured using a Rosslare clamshell proximity card or equivalent. Range also depends on installation environment, reader voltage, and proximity to metal.



READERS

UHF READERS

AY-L23



- The AY-L23 can operate as a standalone controller with the SA-23-B2
- Each button on the SA-23-B2 can be registered to activate different outputs in the AY-L23

Extra Long-Range RF Reader

Specification	AY-L23
Operating Voltage	7–24 VDC
Standby Input Current	26 mA
Max. Input Current	65 mA
Max. Remote Control Read Range	50 m (165 ft)
Operating Temp. Range	-31°C to 63°C (-25°F to 145°F)
Operating Humidity Range	0 to 95% (non-condensing)
Outdoor Usage	Weather-resistant, meets IP65
Dimensions (H x W x D)	145 x 43 x 20 mm (5.7 x 1.7 x 0.9 in.)
Weight	500 g (1.1 lb)

SA-23-B2



SA-23-B4



2/4-Channel Transmitter for AY-L23 Receiver

Specification	SA-23-B2, SA-23-B4
Input Voltage	3 V Battery (CR2450)
Standby Input Current: (12 VDC)	< 1 uA
Max. Input Current: (16 VDC)	10 mA
Tamper Output	Open collector, active Open, max. sink current 16 mA
ID Format	Programmed to Wiegand 26-Bit
Frequencies	G: 433.92 MHz (ASK) H: 868.35 MHz (ASK)
Operating Temp. Range	-31°C to 63°C (-25°F to 145°F)
Operating Humidity Range	0 to 95% (non condensing)
Dimensions (H x W x D)	58 x 41 x 13.4 mm (2.3 x 1.6 x 0.5 in.)

AY-910



UHF Integrated Long-Range Reader

Can be used with MD-81 converter for sequential data streams

MD-81



RS-232 to Wiegand 26-Bit Output Converter

Specification	AY-U910
Operating Voltage Range	9 to 12 VDC (2 A)
Standby Input Current: (12 VDC)	0.2 A max
Max. Input Current: (16 VDC)	Read: 1.2 A max
Max. Proximity Card Read Range*	Up to 12 m (39.4 ft)
Operating Temp. Range	-20°C to 80°C (-4°F to 176°F)
Operating Humidity Range	0 to 95% (non-condensing)
Dimensions (H x W x D)	44.5 x 44.5 x 6.7 cm (17.5 x 17.5 x 2.6 in.)
Weight	2.3 kg (5.1 lb)

* Read range was tested with a Rosslare UHF card.

13.56 MHz – Open to secure™ (O2S®) READERS

AY-H6270B, AY-H6280B



Open to secure™ (O2S®)
MIFARE® and MIFARE
Plus®/DESFire® EV1
Reader

AY-H6370B, AY-H6380B



Open to secure™ (O2S®)
MIFARE® and MIFARE
Plus®/DESFire® EV1 Reader
with Keypad

AY-G6270B, AY-G6280B



Open to secure™ (O2S®)
MIFARE® and MIFARE
Plus®/DESFire® EV1
Reader

AY-G6370B, AY-G6380B



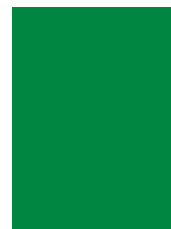
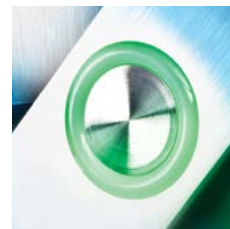
Open to secure™ (O2S®)
MIFARE® and MIFARE Plus®/
DESFire® EV1 Reader with
Keypad

Major Features

- Tri-colored LED operation and buzzer highest security with AES 128 Bit compatible with MIFARE Plus and MIFARE DESFire EV1
- Card+PIN on selected models for extra security on selected models
- CSN reading with MIFARE Classic EV1
- Supports SIA Open Supervised Device Protocol (OSDP)
- Back and cover optical tamper detection and output
- IP65 environmental protection



Specification	AY-H6270B/6370B		AY-H6280B/6380B		AY-G6270B/6370B	AY-G6280B/6380B
Operating Voltage Range	8.5–16 VDC					
Standby Input Current	35 mA					
Maximum Input Current	55 mA					
Tamper Output	Open collector, active Low, max. sink current 30 mA					
Max. Read Range*	45 mm (1.8 in.)				40 mm (1.6 in.)	
Operating Temp. Range	-31°C to 63°C (-25°F to 145°F)					
Operating Humidity Range	0 to 95% (non-condensing)					
Outdoor Usage	Weather-resistant, meets IP65					
Dimensions (H x W x D)	120 x 80 x 23 mm (4.7 x 3.1 x 0.9 in.)		120 x 80 x 31 mm (4.7 x 3.1 x 1.2 in.)		145.3 x 42 x 23 mm (5.7 x 1.7 x 0.9)	
Weight	201.0 g (7.1 oz)	209.0 g (7.4 oz)	209.0 g (7.4 oz)	217.0 g (7.7 oz)	155 g (5.5 oz)	



13.56 MHz – CSN SELECT READERS

AY-K6255



Micro-Mullion
CSN SELECT Reader

AY-M6255



Asia/UK Gang Box
CSN SELECT Reader

AY-H6255



US Gang Box
CSN SELECT Reader

AY-L6255



Mullion
CSN SELECT Reader

AYC-M6355



Asia/UK Gang Box CSN SELECT
Reader w/ Keypad (Convertible)

AYC-H6355



US Gang Box CSN SELECT
Reader w/ Keypad (Convertible)

Major Features

- Multi-credential technology contactless smart card (13.56 MHz) readers, support most popular smart cards in the security industry
 - ISO14443A - MIFARE® Ultralight® / Classic® / Plus® / DESFire®, NFC N-TAG / Card Emulation
 - ISO14443B - China National ID
 - ISO15693 - HID® iClass®, PicoPass™, iCode, LEGIC
 - ISO18092 - SONY® FeliCa® (Hong Kong Octopus)
- Open Supervised Device Protocol (OSDP) in AY-M/H6255 and AYC-M/H6355 models
- Convertible technology in AYC-M/H6355
- Tri-colored LED notification for operation status
- Three control lines: red LED, green LED, and buzzer
- Sleek and modern design

■ 13.56 MHz MIFARE® CLASSIC EV1 – CSN & READ SECTOR

MIFARE® SMART CARD CONTACTLESS READER SERIES

AY-H25B



US Gang Box Sized
MIFARE® Contactless Smart
Card Reader (CSN only)

AY-L25B



Mullion MIFARE®
Contactless Smart Card
Reader (CSN only)

AY-J25B



Mini-Mullion MIFARE®
Contactless Smart Card
Reader (CSN only)

AY-K25B



Micro-Mullion MIFARE®
Contactless Smart Card
Reader (CSN only)

AY-M25B



UK Gang Box Sized
MIFARE® Contactless
Smart Card Reader

AY-M26



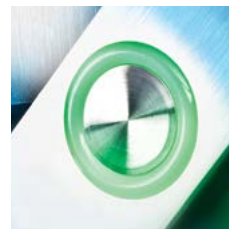
UK Gang Box Sized
MIFARE® Contactless
Smart Card Sector Reader

Major Features

- ISO-14443A, MIFARE at 13.56 MHz
- Programmable multi-format output: Wiegand 26-Bit with Site Code, Fixed 26-Bit, 32-Bit, 32-Bit Reversed, 34-Bit, 40-Bit and Clock & Data using MD-08B (AY-M26, using AS-B01 and CP-R25/6)
- Bi-colored LED and buzzer indicators
- Programmable input: LED control/buzzer control
- Epoxy-potted – meets IP65, waterproof
- Optical back tamper

Specification	AY-K25B	AY-H25B	AY-L25B	AY-J25B	AY-M25B	AY-M26
Operating Voltage Range	5–16 VDC					6.5–16 VDC
Standby Input Current	35 mA					110 mA
Maximum Input Current	55 mA					165 mA
Tamper Output	Open collector, active low, max. sink current 16 mA				Open collector, active low, max. sink current 30 mA	
Max. Read Range*	60 mm (2.4 in.)	70 mm (2.8 in.)	45 mm (1.8 in.)			70 mm (2.8 in.)
Operating Temp. Range	-31°C to 63°C (-25°F to 145°F)					
Operating Humidity Range	0 to 95% (non-condensing)					
Outdoor Usage	Weather-resistant, meets IP65					
Dimensions (H x W x D)	79.9 x 39.9 x 12.8 mm (3.1 x 1.6 x 0.5 in.)	109.9 x 74.9 x 15 mm (4.3 x 3.0 x 0.6 in.)	144.9 x 42.9 x 20 mm (5.7 x 1.7 x 0.8 in.)	120.0 x 42.0 x 14 mm (4.7 x 1.7 x 0.6 in.)	89 x 89 x 15 mm (3.5 x 3.5 x 0.6 in.)	
Weight	75.5 g (2.7 oz)	119.9 g (4.2 oz)	115.2 g (4.1 oz)	88.5 g (3.1 oz)	120.3 g (4.2 oz.)	116 g (4.1 oz)

* Tested with MIFARE Classic EV1 1K NXP based card.



MIFARE® SMART CARD CONTACTLESS US GANG BOX READER SERIES

AY-W6250W, AY-W6260



MIFARE® Contactless Smart Card
Sector/CSN Reader

AY-W6350W, AY-W6360



MIFARE® Contactless Smart Card
Sector/CSN Reader with Keypad

Specification	AY-W6250	AY-W6350	AY-W6260	AY-W6360
Operating Voltage Range	5–16 VDC		5–16 VDC	
Standby Input Current	110 mA	180 mA	110 mA	160 mA
Maximum Input Current	165 mA	235 mA	165 mA	235 mA
Tamper Output	Open collector, active low, max. sink current 32 mA		Open collector, active low, max. sink current 30 mA	
Max. Read Range*	65 mm (2.6 in.)	70 mm (2.8 in.)	45 mm (1.8 in.)	
Operating Temperature Range	-31°C to 63°C (-25°F to 145°F)			
Operating Humidity Range	0 to 95% (non-condensing)			
Outdoor Usage	Weather-resistant, meets IP65			
Dimensions (H x W x D)	125 x 83 x 29.5 mm (4.9 x 3.3 x 1.2 in.)			
Weight	230 g (8.1 oz)			

* Tested with MIFARE Classic EV1 1K NXP based card.

ANTI-VANDAL MIFARE® SMART CARD CONTACTLESS US GANG BOX READER SERIES

AY-Q6250, AY-Q6260



Anti-Vandal MIFARE® Contactless Smart Card Sector/CSN Reader

AY-Q6350, AY-Q6360



Anti-Vandal MIFARE® Contactless Smart Card Sector/CSN Reader with Keypad

- Blue backlight keypad
- Two tri-colored LED and buzzer indicators

Specification	AY-Q6250	AY-Q6350	AY-Q6260	AY-Q6360
Operating Voltage Range	5–16 VDC			
Standby Input Current	60 mA	115 mA	110 mA	160 mA
Maximum Input Current	100 mA	160 mA	190 mA	240 mA
Tamper Output	Open collector, active low, max. sink current 32 mA		Open collector, active low, max. sink current 30 mA	
Max. Read Range*	45 mm (1.8 in.)	30 mm (1.2 in.)	45 mm (1.8 in.)	
Operating Temperature Range	-31°C to 63°C (-25°F to 145°F)			
Operating Humidity Range	0 to 95% (non-condensing)			
Dimensions (H x W x D)	120 x 76 x 22 mm (4.7 x 3.0 x 1.0 in.)	120 x 76 x 22 mm (4.7 x 3.0 x 1.0 in.)	120 x 76 x 22 mm (4.7 x 3.0 x 1.0 in.)	
Weight	500 g (17.6 oz)	440 g (15.5 oz)	500 g (17.6 oz)	440 g (15.5 oz)

* Tested with MIFARE Classic EV1 1K NXP based card.



125 kHz – ROSSLARE PROXIMITY & GOPROX®

PROXIMITY READER SERIES

AY-HR12B/H12C



US Gang Box Sized
Proximity Reader

AY-LR12B/L12C



Mullion Proximity
Reader

AY-JR12B/J12C



Mini-Mullion
Proximity Reader

AY-KR12B/K12C



Micro-Mullion
Proximity Reader

AY-MR12B/M12C



UK Gang Box Sized
Proximity Reader

AY-xR12B

Wiegand 26-Bit read format

- Bi-colored LED
- LED color control input

AY-x12C

- Reads Rosslare proprietary format
- Selectable transmission formats:
Wiegand 26-Bit, Clock & Data, RS-232
- Tri-colored LED
- 2 x LED color control inputs
- Hold control input

AY-E20



Outdoor
Ultra-Slim
Flush-Mount
Reader

Specification		AY-xR12B	AY-xR12C	AY-E20
Operating Voltage Range		5–16 VDC		5–16 VDC (in Reader mode, from controller)
Input Current	J, K	Standby: 35 mA, Maximum: 50 mA	Standby: 35 mA, Maximum: 55 mA	Standby: 40 mA Maximum: 100 mA
	H, L, M	Standby: 35 mA, Maximum: 100 mA		
Tamper Output		Open collector, active low, max. sink current 16 mA		Open collector, active low, max. sink current 16 mA
Operating Temperature Range		-31°C to 63°C (-25°F to 145°F)		
Operating Humidity Range		0 to 95% (non-condensing)		
Outdoor Usage		Weather-resistant, meets IP68		Waterproof, meets IP68
Read Format		ASK		

Specification	Dimensions (H x W x D)	Weight	Read Range*
AY-HR12B/H20B	109.9 x 74.9 x 15 mm (4.3 x 3.0 x 0.6 in.)	100 g (3.5 oz)	12 cm (4.7 in.)
AY-JR12B/J20B	120.0 x 42.0 x 14 mm (4.7 x 1.7 x 0.6 in.)	88.5 g (3.1 oz)	10 cm (3.9 in.)
AY-KR12B/K20B	79.9 x 39.9 x 12.8 mm (3.1 x 1.6 x 0.5 in.)	70.5 g (2.5 oz)	8 cm (3.1 in.)
AY-LR12B/L20B	144.9 x 42.9 x 20 mm (5.7 x 1.7 x 0.8 in.)	116 g (4.1 oz)	12 cm (4.7 in.)
AY-MR12B/M20B	88.9 x 88.9 x 15 mm (3.5 x 3.5 x 0.6 in.)	109 g (3.8 oz)	10 cm (3.9 in.)
AY-E20	155 x 45 x 8 mm (6.1 x 1.8 x 0.3 in.)	135 g (4.8 oz)	3.5 cm (1.4 in.)

*Measured using a Rosslare clamshell proximity card or equivalent. Range also depends on installation environment, reader voltage, and proximity to metal.

CONVERTIBLE PROXIMITY & GOPROX® WITH PIN READER SERIES



AYC-F64



3x4 Backlit Proximity & PIN Convertible Reader/Controller

AYC-G64



2x6 Backlit Proximity & PIN Convertible Reader/Controller

AYC-M60



UK Gang Backlit goPROX® & PIN Convertible Reader/Controller

AYC-F60



US Single Gang Backlit goPROX® & PIN Convertible Reader/Controller

AYC-G60



Mullion Backlit goPROX® & PIN Convertible Reader/Controller

Specification	AYC-F64	AYC-G64	AYC-M60	AYC-F60	AYC-G60
Operating Voltage Range	5–16 VDC (in Reader mode, from controller)				
Standby Input Current: (12 VDC)	105 mA		100 mA		
Max. Input Current: (16 VDC)	140 mA				
Tamper Output	Open collector, active low, max. sink current 32 mA				
Max. Proximity Card Read Range*	80 mm (3.1 in.)		60 mm (2.4 in.)		
Operating Temp. Range	-30°C to 65°C (-22°F to 150°F)				
Operating Humidity Range	0 to 95% (non-condensing)				
Outdoor Usage	Waterproof, meets IP65				
Read Format	ASK		ASK/FSK		
Dimensions (H x W x D)	120 x 76 x 21 mm (4.7 x 3.0 x 0.8 in.)	137 x 44 x 21 mm (5.4 x 1.7 x 0.8 in.)	93 x 93 x 18 mm (3.6 x 3.6 x 0.7 in.)	120 x 76 x 21 mm (4.7 x 3.0 x 0.8 in.)	137 x 44 x 21 mm (5.4 x 1.7 x 0.8 in.)
Weight	215 g (7.6 oz)	160 g (5.6 oz)	185 g (6.5 oz)	230 g (8.1 oz)	175 g (6.2 oz)

*Measured using a Rosslare clamshell proximity card or equivalent. Range also depends on installation environment, reader voltage, and proximity to metal.



ULTRA-SLIM BACKLIT PIEZOELECTRIC PIN / PROXIMITY & PIN & GOPROX®



AYC-E65BW/E65BG/E65BB



Convertible 2x6 Ultra-Slim Backlit PIN/ Proximity & PIN Reader/Controller

AYC-E60N/B



Convertible Ultra-Slim Piezoelectric Mullion Backlit goPROX® & PIN Reader

AYC-T65N



AYC-T65B



Convertible Ultra-Slim Piezoelectric US Gang Backlit Proximity & PIN Reader

General features

- Ultra-slim flush-mount design
- Built-in piezoelectric keypad for PIN code entry
- Programmable patented blue backlit keypad (AYC-E65B)

Specification	wAYC-E65B	AYC-E60	AYC-T65
Operating Voltage Range	5–16 VDC (in Reader mode, from controller)		
Standby Input Current: (12 VDC)	92 mA	110 mA	92 mA
Max. Input Current: (16 VDC)	105 mA	130 mA	105 mA
Tamper Output	Open collector, active low, max. sink current 30 mA	Open collector, active low, max. sink current 32 mA	Open collector, active low, max. sink current 30 mA
Max. Proximity Card Read Range*	40 mm (1.6 in.)		
Operating Temp. Range	-30°C to 65°C (-22°F to 150°F)		
Operating Humidity Range	0 to 95% (non-condensing)		
Outdoor Usage	Waterproof, meets IP68	Waterproof, meets IP65	Waterproof, meets IP68
Read Format	ASK	ASK\FSK	ASK
Dimensions (H x W x D)	155 x 44 x 9 mm (6.1 x 1.7 x 0.4 in.)		121 x 70 x 8 mm (4.8 x 2.8 x 0.3 in.)
Weight	143 g (5.0 oz)	143 g (5.0 oz)	121 g (4.3 oz)

*Measured using a Rosslare clamshell proximity card or equivalent. Range also depends on installation environment, reader voltage, and proximity to metal.

ANTI-VANDAL US SINGLE GANG PROXIMITY READER SERIES

General Features

- Programmable patented blue backlit keypad

AY-Q12



Anti-Vandal Wiegand 26-Bit Proximity Reader

AYC-Q65



Convertible Anti-Vandal Piezoelectric 3x4 Proximity & PIN Reader/Controller

AYC-Q64B



Convertible Anti-Vandal Backlit 3x4 Proximity & PIN Reader/Controller

AYC-Q60

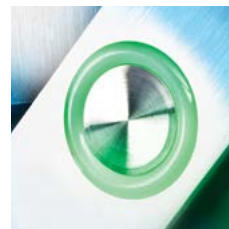


Convertible Anti-Vandal US Single Gang Backlit goPROX® & PIN Reader



Specification	AY-Q12	AYC-Q65	AYC-Q64B	AYC-Q60
Input Voltage	5–16 VDC			
Maximum Input Current	100 mA	130 mA		
Standby Input Current	35 mA	90 mA		110 mA
Tamper Output	Open collector, active low, max. sink current 16 mA	Open collector, active low, max. sink current 32 mA		
Max. Read Range*	55 mm (2.2 in.)	45 mm (1.8 in.)		
Operating Temperature Range	-31°C to 63°C (-25°F to 145°F)	-35°C to 66°C (-31°F to 151°F)	-30°C to 65°C (-22°F to 150°F)	
Operating Humidity Range	0 to 95% (non-condensing)			
Outdoor Usage	Weather-resistant, meets IP65			
Read Format	ASK			ASK/FSK
Dimensions (H x W x D)	120 x 76 x 27 mm (4.7 x 3.0 x 1.1 in.)	120 x 76 x 21 mm (4.7 x 3.0 x 0.8 in.)		
Weight	521 g (1.2 lb)	480 g (1.1 lb)		

*Measured using a Rosslare clamshell proximity card or equivalent. Range also depends on installation environment, reader voltage, and proximity to metal.



MULTI-COLOR ILLUMINATION READERS

AY-R12



Outdoor RGB Illuminated Reader

Major Features AY-R12

- 125 kHz EM proximity card reader
- Wiegand 26-Bit output format
- 16 possible color schemes selectable by 4 wired inputs
- Optical back tamper

Specification	AY-R12
Input Voltage	12–16 VDC
Maximum Input Current	150 mA
Standby Input Current	100 mA
Tamper Output	Open collector, active low, max. sink current 16 mA
Max. Read Range*	80 mm (3.1 in.)
Operating Temperature Range	-31°C to 63°C (-23.8°F to 145.4°F)
Operating Humidity Range	0 to 95% (non-condensing)
Dimensions (H x W x D)	120 x 89 x 21 mm (4.7 x 3.5 x 0.8 in.)
Weight	202 g (7.1 oz)

*Measured using a RossLare clamshell proximity card or equivalent. Range also depends on installation environment, reader voltage, and proximity to metal.

INDOOR PROXIMITY READERS

AY-CR11W



Indoor Mullion
Proximity
Reader with
Bell Button

AY-CR12W



Indoor Mullion
Proximity
Reader

AY-DR11W



Indoor Proximity
Reader with Bell
Button

AY-DR12W



Indoor Proximity
Reader

AY-C19M



Indoor Mullion
Proximity & PIN
Reader

AY-D19M



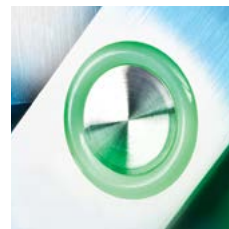
Indoor Proximity
& PIN Reader with
Bell Button

Major Features

- 125 kHz, ASK type EM RFID Proximity
- Wiegand 26-Bit output
- Bi-colored LED and buzzer indicators
- 4-wire terminal-block connections
- Case tamper signal Wiegand codes reported with Rosslare's controllers
- Door bell key signal reported by Wiegand codes, with Rosslare's controllers (selected models)

Specification	AY-CR11W	AY-CR12W	AY-DR12W	AY-DR11W	AY-C19M	AY-D19M
Input Voltage	12–16 VDC					5–16 VDC
Max. Input Current @12 VDC	60 mA					100 mA
Standby Input Current @12 VDC	25 mA					55 mA
Tamper Output	Open collector, active low, max. sink current 32 mA					
Max. Read Range*	60 mm (2.4 in.)	80 mm (3.1 in.)	100 mm (3.9 in.)	N/A		80 mm (3.1 in.)
Operating Temp. Range	-31°C to 63°C (-25°F to 145°F)					
Operating Humidity Range	0 to 95% (non-condensing)					
Dimensions (H x W x D)	130 x 41.7 x 19 mm (5.1 x 1.6 x 0.7 in.)		122 x 74 x 18.5 mm (4.8 x 2.9 x 0.7 in.)			122 x 75 x 24 mm (4.8 x 3.0 x 0.9 in.)
Weight	75 g (2.6 oz)	70 g (2.5 oz)	100 g (3.5 oz)		115 g (4.1 oz)	114 g (4.0 oz)

*Measured using a Rosslare clamshell proximity card or equivalent. Range also depends on installation environment, reader voltage, and proximity to metal.



AY-F66



Outdoor Proximity & PIN Reader with Time/Date LED Display

- For use with AxTraxNG™ and ExpansE™ platform controllers
- 125 kHz, ASK type EM RFID Proximity
- Wiegand 26-Bit, Clock & Data
- Buzzer indicator
- Multi-format keypad transmission
- Time, date, and programming 7-segment display
- Time and date update using RS-485 and AxTraxNG communication interface
- Optical case and back tamper

Specification	AY-F66
Operating Voltage Range	5–16 VDC
Standby Input Current	180 mA
Maximum Input Current	315 mA
Tamper Output	Open collector, active low, max. sink current 32 mA
Max. Proximity Read Range	100 mm (4 in.)
Operating Temp. Range	-20°C to 60°C (-4°F to 140°F)
Operating Humidity Range	0 to 95% (non-condensing)
Outdoor Usage	Weather-resistant, meets IP54
Dimensions (H x W x D)	120 x 71 x 30 mm (4.7 x 2.8 x 1.2 in.)
Weight	230 g (8.1 oz)

LONG-RANGE AND MEDIUM-RANGE PROXIMITY READERS

AY-V12B



Medium-Range Proximity Reader

- Wiegand 26-Bit
- Bi-colored LED and buzzer indicators

AY-V64B



Medium-Range Backlit Proximity & PIN Reader

- Wiegand 26-Bit, Clock & Data
- Multi-format keypad transmission format
- Red backlight display
- Two bi-colored LED and buzzer indicators

AY-Z12A

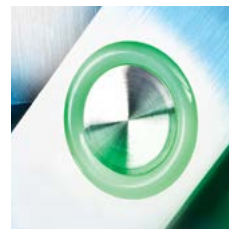


Long-Range Proximity Reader

- Wiegand 26-Bit
- Bi-colored LED and buzzer indicators
- 125 kHz, ASK type EM RFID proximity passive cards
- Optical case and back tamper

Specification	AY-V12B	AY-V64B	AY-Z12A
Operating Voltage	5–16 VDC		10–16 VDC
Standby Input Current	120 mA	150 mA	280 mA
Max. Input Current	140 mA	180 mA	330 mA
Max. Read Range*	220 mm (8.7 in.)	220 mm (8.7 in.)	600 mm (23.6 in.)
Operating Temperature Range	-30°C to 63°C (-22°F to 145°F)	-20°C to 63°C (-4°F to 145°F)	-32°C to 63°C (-25°F to 145°F)
Operating Humidity Range	0 to 95% (non-condensing)		
Outdoor Usage	Meets IP54		
Dimensions (H x W x D)	125 x 125 x 21 mm (4.9 x 4.9 x 0.8 in.)		300 x 300 x 25 mm (11.8 x 11.8 x 1.0 in.)
Weight	285 g (10.0 oz)		1066 g (2.4 lb)

*Measured using a Rosslare clamshell proximity card or equivalent. Range also depends on installation environment, reader voltage, and proximity to metal.



PIN ONLY READERS/CONTROLLERS

AYC-F54



Convertible 3x4 Backlit PIN Reader/Controller

AYC-G54



Convertible 2x6 Backlit PIN Reader/Controller

AYC-E55



Convertible 2x6 Ultra-Slim PIN Reader/Controller

AYC-Q54B



Convertible Anti-Vandal Backlit 3x4 PIN Reader/Controller

Specification	AYC-F54		AYC-G54	AYC-E55	AYC-Q54B
Operating Voltage Range	5–16 VDC (in Reader mode, from controller)				
Standby Input Current: (12 VDC)	75 mA			15 mA	65 mA
Max. Input Current: (16 VDC)	110 mA			40 mA	110 mA
Tamper Output	Open collector, active low, max. sink current 32 mA			Open collector, active low, max. sink current 30mA	
Operating Temperature Range	-35°C to 66°C (-31°F to 151°F)			-30°C to 65°C (-22°F to 150°F)	-35°C to 66°C (-31°F to 151°F)
Operating Humidity Range	0 to 95% (non-condensing)				
Outdoor Usage	Waterproof, meets IP65			Waterproof, meets IP68	Waterproof, meets IP65
Dimensions (H x W x D)	120 x 76 x 21 mm (4.7 x 3.0 x 0.8 in.)	137 x 44 x 21 mm (5.4 x 1.7 x 0.8 in.)		155 x 44 x 6.5 mm (6.1 x 1.7 x 0.3 in.)	120 x 76 x 21 mm (4.7 x 3.0 x 0.8 in.)
Weight	215 g (7.6 oz)	160 g (5.6 oz)		120 g (4.2 oz)	480 g (16.9 oz)

AY-S55

Anti-Vandal Piezoelectric
2x6 PIN Reader

AY-T55

Anti-Vandal Piezoelectric
3x4 PIN Reader

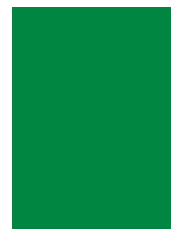
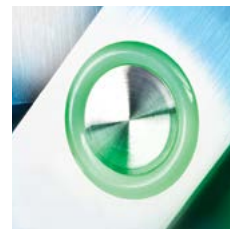
AY-C09M

Indoor Mullion PIN Reader

AY-D09M

Indoor Multi-Format PIN Reader

Specification	AY-C09M	AY-D09M	AY-S55	AY-T55
Operating Voltage Range	12–16 VDC	5–16 VDC	5–16 VDC (in Reader mode, from controller)	
Standby Input Current: (12 VDC)	60 mA	55 mA	30 mA	
Max. Input Current: (16 VDC)	25 mA	100 mA	120 mA	
Tamper Output	Open collector, active low, max. sink current 32 mA			
Operating Temperature Range	0°C to 63°C (32°F to 145°F)	-32°C to 63°C (-25°F to 145°F)	-31°C to 63 °C (-25°F to 145°F)	
Operating Humidity Range	0 to 95% (non-condensing)			
Outdoor Usage	N/A	N/A	Waterproof, meets IP65	
Dimensions (H x W x D)	130 x 41.7 x 19 mm (5.1 x 1.6 x 0.7 in.)	122 x 75 x 24 mm (4.8 x 3.0 x 0.9 in.)	150 x 42 x 27 mm (5.9 x 1.7 x 1.1 in.)	120 x 65 x 27 mm (4.7 x 2.6 x 1.1 in.)
Weight	70 g (2.5 oz)	110 g (3.9 oz)	400 g (14.1 oz)	500 g (17.6 oz)



BIOMETRIC READERS

AY-B4663

AY-B1663

AY-B3663

AY-B1660

AY-B2660, AYC-B7661

AYC-W6500



reddot design award

AY-Bx66x – Main Features

- Match-on-Card Technology
- Decrease identity theft and fraud
- Increase security
- Create traceability and auditability
- Increase cost-efficiency
- Unlimited users, high security level
- Biometric data on MIFARE cards (1K & 4K)
- Wiegand 26-Bit, Wiegand 32-Bit, Wiegand 34-Bit, Wiegand 40-Bit, and Clock & Data output formats

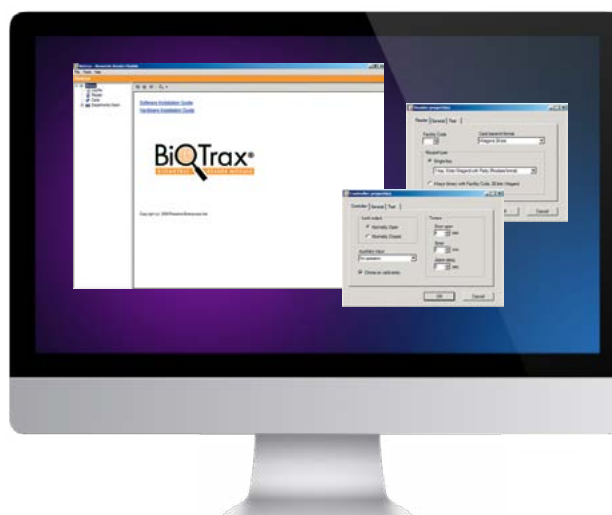
AYC-B7661 – Main Features

- Standalone reader/controller
- Optical back tamper sensor and tamper output signal
- Supports lockout feature for fraud prevention
- Compatible with MIFARE ISO 14443A 1K and 4K cards and tags
- Programmable card transmission formats
- Programmable LED and buzzer contro inputs
- Supports both 1:1 and 1:N modes with up to 107 finger print templates

AYC-W6500 – Main Features

- 500 users, 2 templates per user fingerprint, PIN and card
- Built-in fingerprint capacitive multi-angle sensor
- BioTrax™ PC software for complete fingerprint management and fast configuration over the network
- Minimum software requirements:
 - Windows XP with SP2/2003 server, Windows 7 (32/64 bit), and Windows 8
 - Microsoft.NET 2.0 (or higher) Framework

AS-W6500



BioTrax™ Biometric Fingerprint Enrollment Software

Specification	AYC-W6500	AY-B1663	AY-B3663	AY-B4663	AY-B1660	AY-B2660
Operating Voltage Range	10–16 VDC (Reader mode, from controller)	6–16 VDC			5–16 VDC	
Standby Input Current	140 mA	85 mA			60 mA	
Maximum Input Current	330 mA	513 mA			135 mA	
Tamper Output	Open Collector Output	Open collector, active low, max. sink current 32 mA				
Inputs	Dry contact, Normally Open 0 to 5 V	Programmable LED/buzzer control input, N.O., Dry Contact				
Indicators	N/A	Three blue LED indicators			Two tri-colors LED	
Output Format	Wiegand 26-Bit or Clock & Data	Wiegand 26-Bit, Wiegand 32-Bit, Wiegand 34-Bit, Wiegand 40-Bit and Clock & Data				
Compatible Cards	ISO 125 kHz	MIFARE compatible ISO-14443A			MIFARE ISO14443A-3 standard	
Max. Proximity Read Range	7.5 cm (3.0 in.)	40 mm (1.6 in.)				
Operating Temp. Range	-5°C to 60°C (23°F to 140°F)	-25°C to 60°C (-13°F to 140°F)				
Operating Humidity Range	10% to 90% RH (non-condensing)	5% to 90% (non-condensing)			30% to 85% (non-condensing)	
Dimensions: (H x W x D)	131 x 125 x 35 mm (5.2 x 4.9 x 1.4 in.)	70.1 x 54.1 x 39.1 mm (2.8 x 2.1 x 1.5 in.)	84.1 x 54.1 x 20.9 mm (3.3 x 2.1 x 0.8 in.)	85.4 x 50.6 x 27 mm (3.4 x 2.0 x 1.1 in.)	100 x 54 x 42 mm (3.9 x 2.1 x 1.7 in.)	102 x 54 x 32 mm (4.0 x 2.1 x 1.3 in.)
Weight	270 g (9.5 oz)	81.5 g (2.9 oz)	106 g (3.7 oz)	94.5 g (3.3 oz)	79 g (2.8 oz)	156 g (5.5 oz)

DESKTOP READERS

DR-12C, DR-6255, DR-6280



DR-12C EM Card Desktop Reader

DR-6255 MIFARE® Classic EV1 CSN Desktop Reader

DR-6280 MIFARE® DESFire® EV1 O2S® Desktop Reader

- USB connectivity to PC
- Bi-Colored LED for status notification
- Stylish appearance

READER MODULES

MD-12C

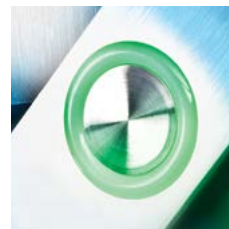


MD-12W



OEM Proximity Reader Module

- 125 kHz ASK, EM RFID Proximity Reader Module
- Read range of 5 cm (2 in.)
- Input voltage: 5 VDC
- Dimensions: Diameter – 23 mm (0.9 in.), Height – 9 mm (0.4 in.)
- Available in Wiegand 26-Bit (MD-12W) and Rosslare format Clock & Data (MD-12C)
- Operating temperature range: -31°C to 63°C (-25°F to 145°F)



CREDENTIALS

UHF ALIEN HIGGS-3 SERIES

UHF ALIEN HIGGS-3 SERIES CREDENTIALS

For use with AY-U900/910 Reader series



	Part Number	Type	Technology	Programmable Memory Size	Form Factor	Format	ID Printing
	LT-UVS-26A-3000	Programmed	ISO18000-6C	64 Bytes	ISO Card (PVC)	Wiegand 26-Bit	Inkjet – FC & Card ID (decimal)
	LT-UVH-26A-7000	Programmed	ISO18000-6C	64 Bytes	Hard Tag	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	LT-UVT-26A-3000	Programmed	ISO18000-6C	64 Bytes	Tamper Paper Label	Wiegand 26-Bit	Inkjet – FC & Card ID (decimal)
	AT-UVT-000-0000	Not Programmed	ISO18000-6C	64 Bytes	Tamper Paper Label	Not Formatted	No ID Printed
	AT-Z4S-000-0000	Not Programmed	ISO18000-6C + MIFARE Classic EV1	4K	ISO Card (PVC)	Not Formatted	No ID Printed

125 kHz TEMIC & EM COMPATIBLE

TEMIC SERIES



	Part Number	Type	Technology	Prog. Mem. Size	Form Factor	Format	ID Printing
	AT-TUC-000-0001 (was AT-T11)	Not Programmed	TEMIC (ASK)	32 Bytes	Clamshell Card	Not Formatted	No ID Printed
	AT-TUC-000-0000	Not Programmed	TEMIC (ASK)	32 Bytes	Clamshell Card	Not Formatted	No ID Printed
	AT-TUS-000-0001 (was AT-T14)	Not Programmed	TEMIC (ASK)	32 Bytes	ISO Card (PVC)	Not Formatted	No ID Printed
	AT-TUS-000-0000	Not Programmed	TEMIC (ASK)	32 Bytes	ISO Card (PVC)	Not Formatted	No ID Printed

13.56 MHz MIFARE® CLASSIC EV1, PLUS S, PLUS X, DESFIRE® EV1

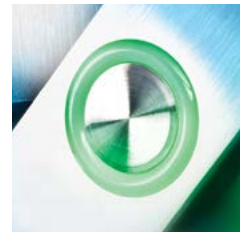
MIFARE® Classic EV1 1K SERIES

For use with O2S® Reader series



	Part Number	Type	Technology	Programmable Memory Size	Form Factor	Format	ID Printing
	AT-D1S-000-0001 (was AT-T512)	Not Programmed	MIFARE Classic EV1 – 4UID	1K	ISO Card (PVC)	Not Formatted	No ID Printed
	AT-C1S-000-0000	Not Programmed	MIFARE Classic EV1 – 7UID	1K	ISO Card (PVC)	Not Formatted	No ID Printed
	RT-C1S-26A-3000	O2S – Rosslare Keys	MIFARE Classic EV1 – 7UID	1K	ISO Card (PVC)	Wiegand 26-Bit	Inkjet – FC & Card ID (decimal)
	RT-C1S-38A-3000	O2S – Rosslare Keys	MIFARE Classic EV1 – 7UID	1K	ISO Card (PVC)	Wiegand 38-Bit (Rosslare Proprietary)	Inkjet – FC & Card ID (decimal)
	AT-D1K-000-OSB0 (was AT-T551B)	Not Programmed	MIFARE Classic EV1 – 4UID	1K	Key Fob	Not Formatted	No ID Printed
	AT-C1K-000-OSB0	Not Programmed	MIFARE Classic EV1 – 7UID	1K	Key Fob	Not Formatted	No ID Printed
	RT-C1K-26A-7SB0	O2S – Rosslare Keys	MIFARE Classic EV1 – 7UID	1K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-C1K-38A-7SB0	O2S – Rosslare Keys	MIFARE Classic EV1 – 7UID	1K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)
	AT-C1K-000-ORB0	Not Programmed	MIFARE Classic EV1 – 7UID	1K	Key Fob	Not Formatted	No ID Printed
	RT-C1K-26A-7RB0	O2S – Rosslare Keys	MIFARE Classic EV1 – 7UID	1K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-C1K-38A-7RB0	O2S – Rosslare Keys	MIFARE Classic EV1 – 7UID	1K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)
	AT-C1K-000-OTB0	Not Programmed	MIFARE Classic EV1 – 7UID	1K	Key Fob	Not Formatted	No ID Printed
	RT-C1K-26A-7TB0	O2S – Rosslare Keys	MIFARE Classic EV1 – 7UID	1K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-C1K-38A-7TB0	O2S – Rosslare Keys	MIFARE Classic EV1 – 7UID	1K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)

ACCESS CONTROL



MIFARE® CLASSIC EV1 4K SERIES For use with O2S® Reader series



	Part Number	Type	Technology	Programmable Memory Size	Form Factor	Format	ID Printing
	AT-D4S-000-0001 (was AT-T513)	Not Programmed	MIFARE Classic EV1 – 4UID	4K	ISO Card (PVC)	Not Formatted	No ID Printed
	AT-C4S-000-0000	Not Programmed	MIFARE Classic EV1 – 7UID	4K	ISO Card (PVC)	Not Formatted	No ID Printed
	RT-C4S-26A-3000	O2S – Rosslare Keys	MIFARE Classic EV1 – 7UID	4K	ISO Card (PVC)	Wiegand 26-Bit	Inkjet – FC & Card ID (decimal)
	RT-C4S-38A-3000	O2S – Rosslare Keys	MIFARE Classic EV1 – 7UID	4K	ISO Card (PVC)	Wiegand 38-Bit (Rosslare Proprietary)	Inkjet – FC & Card ID (decimal)
	AT-D4K-000-0SB0	Not Programmed	MIFARE Classic EV1 – 4UID	4K	Key Fob	Not Formatted	No ID Printed
	AT-C4K-000-0SB0	Not Programmed	MIFARE Classic EV1 – 7UID	4K	Key Fob	Not Formatted	No ID Printed
	RT-C4K-26A-7SB0	O2S – Rosslare Keys	MIFARE Classic EV1 – 7UID	4K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-C4K-38A-7SB0	O2S – Rosslare Keys	MIFARE Classic EV1 – 7UID	4K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)
	AT-C4K-000-0RB0	Not Programmed	MIFARE Classic EV1 – 7UID	4K	Key Fob	Not Formatted	No ID Printed
	RT-C4K-26A-7RB0	O2S – Rosslare Keys	MIFARE Classic EV1 – 7UID	4K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-C4K-38A-7RB0	O2S – Rosslare Keys	MIFARE Classic EV1 – 7UID	4K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)
	AT-C4K-000-0TB0	Not Programmed	MIFARE Classic EV1 – 7UID	4K	Key Fob	Not Formatted	No ID Printed
	RT-C4K-26A-7TB0	O2S – Rosslare Keys	MIFARE Classic EV1 – 7UID	4K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-C4K-38A-7TB0	O2S – Rosslare Keys	MIFARE Classic EV1 – 7UID	4K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)

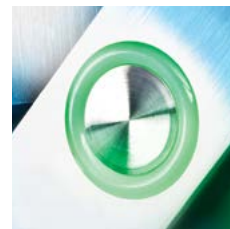
MIFARE® PLUS S 2K SERIES

For use with O2S® Reader series



	Part Number	Type	Technology	Programmable Memory Size	Form Factor	Format	ID Printing
	AT-P2S-000-0000	Not Programmed	MIFARE Plus S	2K	ISO Card (PVC)	Not Formatted	No ID Printed
	RT-P2S-26A-3000	O2S – Rosslare Keys	MIFARE Plus S	2K	ISO Card (PVC)	Wiegand 26-Bit	Inkjet – FC & Card ID (decimal)
	RT-P2S-38A-3000	O2S – Rosslare Keys	MIFARE Plus S	2K	ISO Card (PVC)	Wiegand 38-Bit (Rosslare Proprietary)	Inkjet – FC & Card ID (decimal)
	AT-P2K-000-0S80	Not Programmed	MIFARE Plus S	2K	Key Fob	Not Formatted	No ID Printed
	RT-P2K-26A-7S80	O2S – Rosslare Keys	MIFARE Plus S	2K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-P2K-38A-7S80	O2S – Rosslare Keys	MIFARE Plus S	2K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)
	AT-P2K-000-0RB0	Not Programmed	MIFARE Plus S	2K	Key Fob	Not Formatted	No ID Printed
	RT-P2K-26A-7RB0	O2S – Rosslare Keys	MIFARE Plus S	2K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-P2K-38A-7RB0	O2S – Rosslare Keys	MIFARE Plus S	2K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)
	AT-P2K-000-0TB0	Not Programmed	MIFARE Plus S	2K	Key Fob	Not Formatted	No ID Printed
	RT-P2K-26A-7TB0	O2S – Rosslare Keys	MIFARE Plus S	2K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-P2K-38A-7TB0	O2S – Rosslare Keys	MIFARE Plus S	2K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)

ACCESS CONTROL



MIFARE® PLUS S 4K SERIES

For use with O2S® Reader series



	Part Number	Type	Technology	Programmable Memory Size	Form Factor	Format	ID Printing
	AT-P4S-000-0000	Not Programmed	MIFARE Plus S	4K	ISO Card (PVC)	Not Formatted	No ID Printed
	RT-P4S-26A-3000	O2S – Rosslare Keys	MIFARE Plus S	4K	ISO Card (PVC)	Wiegand 26-Bit	Inkjet – FC & Card ID (decimal)
	RT-P4S-38A-3000	O2S – Rosslare Keys	MIFARE Plus S	4K	ISO Card (PVC)	Wiegand 38-Bit (Rosslare Proprietary)	Inkjet – FC & Card ID (decimal)
	AT-P4K-000-0SB0	Not Programmed	MIFARE Plus S	4K	Key Fob	Not Formatted	No ID Printed
	RT-P4K-26A-7SB0	O2S – Rosslare Keys	MIFARE Plus S	4K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-P4K-38A-7SB0	O2S – Rosslare Keys	MIFARE Plus S	4K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)
	AT-P4K-000-0RB0	Not Programmed	MIFARE Plus S	4K	Key Fob	Not Formatted	No ID Printed
	RT-P4K-26A-7RB0	O2S – Rosslare Keys	MIFARE Plus S	4K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-P4K-38A-7RB0	O2S – Rosslare Keys	MIFARE Plus S	4K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)
	AT-P4K-000-0TB0	Not Programmed	MIFARE Plus S	4K	Key Fob	Not Formatted	No ID Printed
	RT-P4K-26A-7TB0	O2S – Rosslare Keys	MIFARE Plus S	4K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-P4K-38A-7TB0	O2S – Rosslare Keys	MIFARE Plus S	4K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)

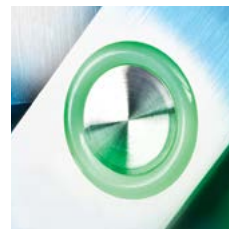
MIFARE® PLUS X 2K SERIES

For use with O2S® Reader series



	Part Number	Type	Technology	Programmable Memory Size	Form Factor	Format	ID Printing
	AT-X2S-000-0000	Not Programmed	MIFARE Plus X	2K	ISO Card (PVC)	Not Formatted	No ID Printed
	RT-X2S-26A-3000	O2S – Rosslare Keys	MIFARE Plus X	2K	ISO Card (PVC)	Wiegand 26-Bit	Inkjet – FC & Card ID (decimal)
	RT-X2S-38A-3000	O2S – Rosslare Keys	MIFARE Plus X	2K	ISO Card (PVC)	Wiegand 38-Bit (Rosslare Proprietary)	Inkjet – FC & Card ID (decimal)
	AT-X2K-000-05B0	Not Programmed	MIFARE Plus X	2K	Key Fob	Not Formatted	No ID Printed
	RT-X2K-26A-75B0	O2S – Rosslare Keys	MIFARE Plus X	2K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-X2K-38A-75B0	O2S – Rosslare Keys	MIFARE Plus X	2K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)
	AT-X2K-000-0RB0	Not Programmed	MIFARE Plus X	2K	Key Fob	Not Formatted	No ID Printed
	RT-X2K-26A-7RB0	O2S – Rosslare Keys	MIFARE Plus X	2K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-X2K-38A-7RB0	O2S – Rosslare Keys	MIFARE Plus X	2K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)
	AT-X2K-000-0TB0	Not Programmed	MIFARE Plus X	2K	Key Fob	Not Formatted	No ID Printed
	RT-X2K-26A-7TB0	O2S – Rosslare Keys	MIFARE Plus X	2K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-X2K-38A-7TB0	O2S – Rosslare Keys	MIFARE Plus X	2K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)

ACCESS CONTROL



MIFARE® PLUS X 4K SERIES

For use with O2S® Reader series



	Part Number	Type	Technology	Programmable Memory Size	Form Factor	Format	ID Printing
	AT-X4S-000-0000	Not Programmed	MIFARE Plus X	4K	ISO Card (PVC)	Not Formatted	No ID Printed
	RT-X4S-26A-3000	O2S – Rosslare Keys	MIFARE Plus X	4K	ISO Card (PVC)	Wiegand 26-Bit	Inkjet – FC & Card ID (decimal)
	RT-X4S-38A-3000	O2S – Rosslare Keys	MIFARE Plus X	4K	ISO Card (PVC)	Wiegand 38-Bit (Rosslare Proprietary)	Inkjet – FC & Card ID (decimal)
	AT-X4K-000-0SB0	Not Programmed	MIFARE Plus X	4K	Key Fob	Not Formatted	No ID Printed
	RT-X4K-26A-7SB0	O2S – Rosslare Keys	MIFARE Plus X	4K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-X4K-38A-7SB0	O2S – Rosslare Keys	MIFARE Plus X	4K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)
	AT-X4K-000-0RB0	Not Programmed	MIFARE Plus X	4K	Key Fob	Not Formatted	No ID Printed
	RT-X4K-26A-7RB0	O2S – Rosslare Keys	MIFARE Plus X	4K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-X4K-38A-7RB0	O2S – Rosslare Keys	MIFARE Plus X	4K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)
	AT-X4K-000-0TB0	Not Programmed	MIFARE Plus X	4K	Key Fob	Not Formatted	No ID Printed
	RT-X4K-26A-7TB0	O2S – Rosslare Keys	MIFARE Plus X	4K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-X4K-38A-7TB0	O2S – Rosslare Keys	MIFARE Plus X	4K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)

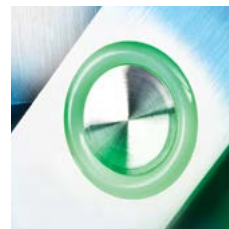
MIFARE® DESFIRE EV1 2K SERIES

For use with O2S® Reader series



	Part Number	Type	Technology	Programmable Memory Size	Form Factor	Format	ID Printing
	AT-V2S-26A-0000	Not Programmed	MIFARE DESFire EV1	2K	ISO Card (PVC)	Wiegand 26-Bit	No ID Printed
	RT-V2S-26A-3000	O2S – Rosslare Keys	MIFARE DESFire EV1	2K	ISO Card (PVC)	Wiegand 26-Bit	Inkjet – FC & Card ID (decimal)
	RT-V2S-38A-3000	O2S – Rosslare Keys	MIFARE DESFire EV1	2K	ISO Card (PVC)	Wiegand 38-Bit (Rosslare Proprietary)	Inkjet – FC & Card ID (decimal)
	AT-V2K-26A-0SB0	Not Programmed	MIFARE DESFire EV1	2K	Key Fob	Wiegand 26-Bit	No ID Printed
	RT-V2K-26A-7SB0	O2S – Rosslare Keys	MIFARE DESFire EV1	2K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-V2K-38A-7SB0	O2S – Rosslare Keys	MIFARE DESFire EV1	2K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)
	AT-V2K-26A-0RB0	Not Programmed	MIFARE DESFire EV1	2K	Key Fob	Wiegand 26-Bit	No ID Printed
	RT-V2K-26A-7RB0	O2S – Rosslare Keys	MIFARE DESFire EV1	2K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-V2K-38A-7RB0	O2S – Rosslare Keys	MIFARE DESFire EV1	2K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)
	AT-V2K-26A-0TB0	Not Programmed	MIFARE DESFire EV1	2K	Key Fob	Wiegand 26-Bit	No ID Printed
	RT-V2K-26A-7TB0	O2S – Rosslare Keys	MIFARE DESFire EV1	2K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-V2K-38A-7TB0	O2S – Rosslare Keys	MIFARE DESFire EV1	2K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)

ACCESS CONTROL



MIFARE® DESFIRE® EV1 4K SERIES

For use with O2S® Reader series



	Part Number	Type	Technology	Programmable Memory Size	Form Factor	Format	ID Printing
	AT-V4S-26A-0000	Not Programmed	MIFARE DESFire EV1	4K	ISO Card (PVC)	Wiegand 26-Bit	No ID Printed
	RT-V4S-26A-3000	O2S – Rosslare Keys	MIFARE DESFire EV1	4K	ISO Card (PVC)	Wiegand 26-Bit	Inkjet – FC & Card ID (decimal)
	RT-V4S-38A-3000	O2S – Rosslare Keys	MIFARE DESFire EV1	4K	ISO Card (PVC)	Wiegand 38-Bit (Rosslare Proprietary)	Inkjet – FC & Card ID (decimal)
	AT-V4K-26A-05B0	Not Programmed	MIFARE DESFire EV1	4K	Key Fob	Wiegand 26-Bit	No ID Printed
	RT-V4K-26A-75B0	O2S – Rosslare Keys	MIFARE DESFire EV1	4K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-V4K-38A-75B0	O2S – Rosslare Keys	MIFARE DESFire EV1	4K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)
	AT-V4K-26A-0RB0	Not Programmed	MIFARE DESFire EV1	4K	Key Fob	Wiegand 26-Bit	No ID Printed
	RT-V4K-26A-7RB0	O2S – Rosslare Keys	MIFARE DESFire EV1	4K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-V4K-38A-7RB0	O2S – Rosslare Keys	MIFARE DESFire EV1	4K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)
	AT-V4K-26A-0TB0	Not Programmed	MIFARE DESFire EV1	4K	Key Fob	Wiegand 26-Bit	No ID Printed
	RT-V4K-26A-7TB0	O2S – Rosslare Keys	MIFARE DESFire EV1	4K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-V4K-38A-7TB0	O2S – Rosslare Keys	MIFARE DESFire EV1	4K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)

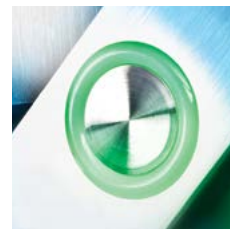
MIFARE® DESFIRE EV1 8K SERIES

For use with O2S® Reader series



	Part Number	Type	Technology	Programmable Memory Size	Form Factor	Format	ID Printing
	AT-V8S-26A-0000	Not Programmed	MIFARE DESFire EV1	8K	ISO Card (PVC)	Wiegand 26-Bit	No ID Printed
	RT-V8S-26A-3000	O2S – Rosslare Keys	MIFARE DESFire EV1	8K	ISO Card (PVC)	Wiegand 26-Bit	Inkjet – FC & Card ID (decimal)
	RT-V8S-38A-3000	O2S – Rosslare Keys	MIFARE DESFire EV1	8K	ISO Card (PVC)	Wiegand 38-Bit (Rosslare Proprietary)	Inkjet – FC & Card ID (decimal)
	AT-V8K-26A-0SB0	Not Programmed	MIFARE DESFire EV1	8K	Key Fob	Wiegand 26-Bit	No ID Printed
	RT-V8K-26A-7SB0	O2S – Rosslare Keys	MIFARE DESFire EV1	8K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-V8K-38A-7SB0	O2S – Rosslare Keys	MIFARE DESFire EV1	8K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)
	AT-V8K-26A-0RB0	Not Programmed	MIFARE DESFire EV1	8K	Key Fob	Wiegand 26-Bit	No ID Printed
	RT-V8K-26A-7RB0	O2S – Rosslare Keys	MIFARE DESFire EV1	8K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-V8K-38A-7RB0	O2S – Rosslare Keys	MIFARE DESFire EV1	8K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)
	AT-V8K-26A-0TB0	Not Programmed	MIFARE DESFire EV1	8K	Key Fob	Wiegand 26-Bit	No ID Printed
	RT-V8K-26A-7TB0	O2S – Rosslare Keys	MIFARE DESFire EV1	8K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-V8K-38A-7TB0	O2S – Rosslare Keys	MIFARE DESFire EV1	8K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)

ACCESS CONTROL



EM SERIES For use with Proximity & goPROX® Readers



	Part Number	Type	Technology	Programmable Memory Size	Form Factor	Format	ID Printing
	AT-ERC-26A-3001 (was AT-R14C)	Programmed	EM	Read-Only	Clamshell Card	Wiegand 26-Bit	Inkjet – FC & Card ID (decimal)
	AT-ERC-26A-3000	Programmed	EM	Read-Only	Clamshell Card	Wiegand 26-Bit	Inkjet – FC & Card ID (decimal)
	AT-ERS-26A-3001 (was AT-R11C)	Programmed	EM	Read-Only	ISO Card (PVC)	Wiegand 26-Bit	Inkjet – FC & Card ID (decimal)
	AT-ERS-26A-3000	Programmed	EM	Read-Only	ISO Card (PVC)	Wiegand 26-Bit	Inkjet – FC & Card ID (decimal)
	AT-ERK-26A-7RB0 (was AT-R261BL)	Programmed	EM	Read-Only	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	AT-ERK-26A-7RL0	Programmed	EM	Read-Only	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	AT-ERK-26A-7TB0 (was AT-R271BL)	Programmed	EM	Read-Only	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	AT-ERK-26A-7TL0	Programmed	EM	Read-Only	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)

SWITCHES

SECURITY SERIES



EX-06



Analog Piezoelectric REX
Switch with Toggle Option

EX-16



Analog Mullion Size
Piezoelectric REX Switch
with Toggle Option

EX-07



Digital Piezoelectric REX
Switch

EX-17 **reddot** design award

Digital Mullion Size
Piezoelectric REX Switch

EX-H04



Sensitive Piezoelectric Button Switch

EX-M04

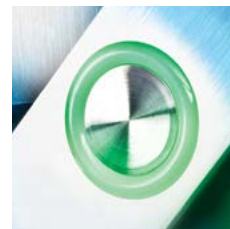


Sensitive Piezoelectric Button Switch

Major Features

- Highly-sensitive piezoelectric REX button family
- Highly visible light ring with automatically or externally controlled changing colors
- Adjustable lock release time using potentiometer
- Up to 2 A switching current
- Standard single gang box and mullion sizes
- Basic, non-powered analog model (EX-06, EX-16)
- Advanced digital model (EX-07, EX-17)
 - Externally controlled lighting and built-in sounder
 - External input for alarm/evacuation light flashing indications
- Stainless steel surface and potted, sealed interior with external connections and setup compartment (EX-06, EX-16, EX-07, EX-17)
- Custom labeling per demand

ACCESS CONTROL



EX-H22



Passive Infrared Motion Sensor Switch

- No-touch switch

EX-M22



Passive Infrared Motion Sensor Switch

- No-touch switch

Specification	EX-06	EX-16	EX-07	EX-17	EX-H04	EX-M22	EX-H22
Input Voltage Range	10–24 VDC/VAC				8–30 VDC		
Max. Switching Current	2 A DPDT		2 x 2 A Form-C, N.O. and N.C.		1 A @ 12 VDC		
Size	Standard Gang	Mullion	Standard Gang	Mullion	Standard Gang		
Built-in Sounder	No		Yes		No		
External Lighting Control	No		Yes		Yes		
Outdoor Usage	Weather-resistant, meets IP65				No		

EX-01



Push-to-Exit Button

- N.O. and N.C. terminals

EX-02



Emergency Button

- N.O. and N.C. terminals

Specification	EX-01	EX-02
Input Voltage Range	30 VDC (typ.)	
Max. Switching Current	3 A (typ.)	
Contact	SPDT (N.O., N.C.)	
Label	Push-to-Exit, Emergency (customization upon request)	

■ GENERAL PURPOSE INDUSTRIAL SWITCHES

PX-13



Piezoelectric buttons designed and developed using advanced technology

PX-23 / PX-34



Piezoelectric buttons with LED indicator, designed and developed using advanced technology, 2 LED control inputs and a wide range of LED voltage input



Piezoelectric buttons with light ring indication, designed and developed using advanced technology, 2 LED control inputs, and a wide range of LED voltage input

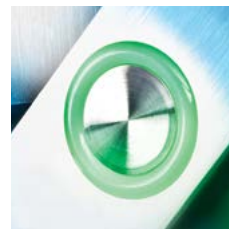
Available colors:



Electrical Specification	PX-13	PX-23	PX-34
Switch Voltage Range	5-30 VDC/VAC		
Switch Current	1A		100mA
Contact Resistance	0.1 Ohm		16 Ohm
External Power Source Required	No		Yes
Power supply voltage	N/A	12VDC	
Impulse Time N.O.	<50 ms		
Finger Pressure on Button	0.5 kg for 5 N		
Button Life	over 50 million cycles		

Environmental Specification	PX-13	PX-23	PX-34
Operating Environment	Indoor and Outdoor		
Outdoor Usage	Waterproof, meets IP68		
Operating Temperature Range	-30°C to 70°C (-22°F to 158°F)	-30°C to 60°C (-22°F to 140°F)	-40°C to 70°C (-40°F to 158°F)
Storage Temperature Range	-40°C to 80°C (-40°F to 176°F)	-30°C to 70°C (-22°F to 158°F)	-60°C to 80°C (-76°F to 176°F)
Operating Humidity Range	10% to 90%		10% to 99%

Physical Specification	PX-13	PX-23	PX-34
Height	19.5 mm (0.8 in.)		
Diameter	29.5 mm (1.2 in.)		
Standard Thread	22 mm (0.9 in.)		
Standard Wires	24-AWG wire (UL1569)		
Pigtail Length	280 mm (11.0 in.)		
Weight	22 g (0.8 oz)		
Housing Colors	Black, Natural (mat), Gold, Green, Red, Blue, White		



SWITCH ACCESSORIES

MP-06



External Metal Mount Enclosure for Piezoelectric REX Buttons

- Available external sleek polished metal mounting box
- Compatible with EX-H04, EX-06/07 and MP-H03
- US Gang Box Size

MP-16



Mullion External Metal Mount Enclosure for Piezoelectric REX Buttons

- Available external sleek polished metal mounting box
- Compatible with EX-16/17 and MP-J03

MP-J03



MP-H03



MP-M03



Mounting Plate for Piezoelectric Buttons

- Compatible with PX-13, PX-23 and PX-34 piezoelectric buttons

LOCKS

ELECTROMAGNETIC LOCKS

LK-M12L



Surface-Mounted Magnetic Lock with holding force of 1200 pounds

LK-M06L



Surface-Mounted Magnetic Lock with holding force of 600 pounds

LK-M03



Surface-Mounted Magnetic Lock with holding force of 300 pounds

ELECTROMAGNETIC LOCKS ACCESSORIES

LA-L12 + LA-Z12



Adjustable L-Bracket for LK-M12L
L&Z Bracket for LK-M12L

LA-L06 + LA-Z06



Adjustable L-Bracket for LK-M06L
L&Z Bracket for LK-M06L

LA-L03 + LA-Z03



Adjustable L-Bracket for LK-M03
L&Z Bracket for LK-M03

LA-U12



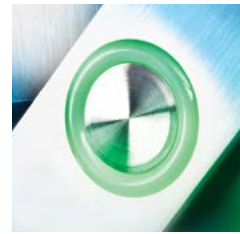
U-Bracket for glass door for use with LK-M12L & LK-M06L

LA-U03



U-Bracket for glass door for LK-M03

ACCESS CONTROL



Maglock Specification	LK-M03	LK-M06L	LK-M12L
Voltage VDC	Dual Voltage 12/24 VDC		
Current	12 VDC: 360 mA 24 VDC: 180 mA	12 VDC: 500 mA 24 VDC: 250 mA	
Holding Force	136 kg (300 lb)	272 kg (600 lb)	544 kg (1200 lb)
Dimensions (L x W x D)	Main: 166 x 38.6 x 21.5 mm (6.5 x 1.5 x 0.8 in.) Contact: 129 x 31.5 x 7.5 mm (5.1 x 1.2 x 0.3 in.)	Main: 250 x 47.2 x 26.6 mm (9.8 x 1.9 x 1.0 in.) Contact: 185 x 37.5 x 11.5 mm (7.3 x 1.5 x 0.5 in.)	Main: 266 x 73 x 40 mm (10.5 x 2.9 x 1.6 in.) Contact: 184 x 60 x 16 mm (7.2 x 2.4 x 0.6 in.)
Weight	Main: 0.6 kg (1.4 lb) Contact: 0.3 kg (0.6 lb)	Main: 1.2 kg (2.7 lb) Contact: 0.7 kg (1.5 lb)	Main: 3.1 kg (6.8 lb) Contact: 1.4 kg (3.1 lb)

Brackets Specification	LA-L03	LA-L06	LA-L12	LA-Z03	LA-Z06	LA-Z12	LA-U03	LA-U12
Dimensions (L x W x D)	166 x 30 x 42 mm (6.5 x 1.2 x 1.7 in.)	250 x 30 x 48 mm (9.8 x 1.2 x 1.9 in.)	266 x 38 x 76 mm (10.5 x 1.5 x 3.0 in.)	166 x 38 x 38 mm (6.5 x 1.5 x 1.5 in.)	185 x 50 x 50 mm (7.3 x 2.0 x 2.0 in.)	185 x 63.8 x 63.8 mm (7.3 x 2.5 x 2.5 in.)	130 x 62 x 33.6 mm (5.1 x 2.4 x 1.3 in.)	185 x 62 x 33.6 mm (7.3 x 2.4 x 1.3 in.)
Weight	145 g (5.1 oz)	233 g (8.2 oz)	474 g (16.7 oz)	376 g (13.3 oz)	457 g (16.1 oz)	746 g (1.6 lb)	378 g (13.3 oz)	550 g (1.2 lb)

POWER SUPPLIES

POWER SUPPLIES

PC-25T



Secured power supply unit – PCB Module

PC-25LT



Secured power supply unit – PCB Module

PS-A25T



Intelligent Secured Power Supply
Type A Box

PS-C25T, PS-C25TU, PS-C25LT



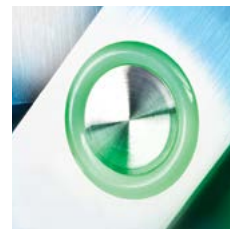
Intelligent Dual-Relay Secured Power Supply Type C Box
(PS-C25T)

US Version (PS-C25TU), C Box without transformer (PS-C25LT)

Major Features

- Two power supplies in one for both the controller unit and door strike
- Door bell feature (from '*' key) when used with Rosslare's secure controller and convertible readers/controllers families
- Secure operation using digital communication to the keypad, prevents wire tampering attempts
- Mounted speaker module for door bell chime and alerts (some models)
- Tamper monitoring for connected keypad
- Space for backup battery (some models)

ACCESS CONTROL

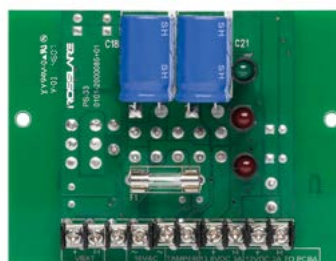


PS-14



Power Supply for AC-215
Provides 12 VDC, 0.5 A and 12 VDC, 1.5 A power outputs and 13.8 VDC for backup battery charging of up to 7 Ah

PS-33



Power Supply for AC-225
Provides 12 VDC, 2 A and 12 VDC, 3 A power outputs and 13.8 VDC for backup battery charging of up to 7 Ah

PS-30F



DIN Rail Mounted AC-DC Power Supply

- Input voltage: 230 VAC/50 Hz
- Output: 16 VAC, 1.5 A, 25 VA

Specification	PS-A25T	PS-C25T	PS-C25TU	PS-C25LT
Input	230 VAC 50 Hz, 0.14 A		16 VAC, 25 VA	16-24 VAC 50 Hz
Internal Transformer	230/16 VAC, 25 VA		N/A	N/A
ACU Output	12 VDC, 1.2 A continuous supply (current limit)			
Lock Output	5 A, SPDT relay, max. switched current: 5 A, max. switched voltage: 150 VDC or 300 VAC 5 A at 30 VDC or at 125 VAC			
Auxiliary Output	Yes			
Speaker	Yes, 8 Ohm, 0.25 W			
Battery Backup	Up to 7 AH, maximum charge current 1.2 A			
Visual Indicators	DC output LED indicator on PCB			
Additional Features	Short circuit and thermal overload protection, includes battery leads			
Operating Temperature Range	-10°C to 50°C (14°F to 122°F)			
Operating Humidity Range	0 to 95% (non-condensing)			
Dimensions (H x W x D)	182 x 80 x 68 mm (7.2 x 3.1 x 2.7 in.)	225 x 230 x 76 mm (8.9 x 9.1 x 3.0 in.)		
Weight	1.2 kg (2.7 lb)	2.4 kg (5.4 lb)	1.5 kg (3.3 lb)	

PC-P16

12 VDC, 1.2 A Power Supply PCB Unit

PS-C16/U

12 VDC, 1.2 A Power Supply Unit

PC-P17

12 VDC, 2 A Power Supply PCB Unit

PS-C17/U

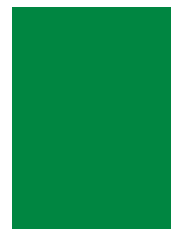
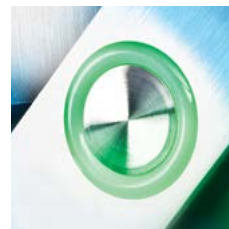
12 VDC, 2 A Power Supply Unit

PC-P18

12 VDC, 5 A Power Supply PCBA

PS-C1812 VDC, 5 A Power Supply Unit
(battery not included)

Specification	PS-C18	PS-C16	PS-C17	PS-C16U	PS-C17U
Input Voltage	230/16 VAC			120/16 VAC	
Output Voltage	Regulated 12 VDC				
Maximum Output Current	5.0 A	1.2 A	2.0 A	1.2 A	2.0 A
Operating Temperature Range	-10°C to 70°C (14°F to 158°F)				
Operating Humidity Range	0 to 95% (non-condensing)				



ACCESSORIES

CARD PROGRAMMERS

CP-R25



Desktop MIFARE® and Swipe Fingerprint Card Programmer

CP-R26



Desktop MIFARE® and Full Fingerprint Card Programmer

CP-R20U



USB Proximity Card Programmer for TEMIC Series

- USB 2.0 link to PC
- Supports standard EM4002 and Rosslare card formats
- Card types supported: Atmel 555x, Sokymat, Temic 555x
- 125 kHz, ASK modulation

Main Features

- Unlimited number of users
- Advanced, secure, multi-application functionality for intelligent installations
- Indication and user guidance, combining animated LED indicators and built-in sounder
- Easy to deploy in the field with a configuration card (Master card)
- Configurable multi-output format, supports Wiegand 26-Bit, Clock & Data, Wiegand 32-Bit, Wiegand 34-Bit, and Wiegand 40-Bit formats
- Compatible with Outdoor Contactless Smart Card Sector Readers and AY-Bx66x and AYC-B7661 Readers
- Microsoft® Windows Compatible software for Master and User card configuration (AS-B01)
- Unique, fast, and highly flexible fingerprint recognition and look-up algorithms
- Active Fingerprint-Sensing Technology allows a wider range of fingerprint captures
- Support any MIFARE Classic EV1 programming (NXP based)

AS-B01



Card Programmer PC Software

- Full card configuration with Facility code
- Client's database management with authorization protection
- User defined cards serialization



■ OTHER ACCESSORIES

MD-N32



TCP/IP to RS-232 Gateway

MD-N33



Serial RS-232 to PSTN Adaptor (Modem)

BL-D40



Compact Bell and Strobe Unit for Standalone Controllers

MD-14U



RS-485 to USB Converter

MD-24U



RS-232 to USB Converter

MD-08

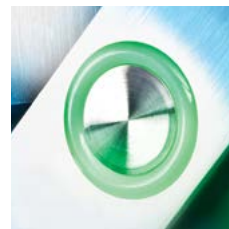


Wiegand 26-Bit to RS-232 Output Converter

MD-08B



Programming Interface for Smart Card Readers (CSN only)



MP-Z02



Mounting Spacer for Long-Range Reader

- Compatible with AY-Z12A

MP-K01



Mount Spacer for K-Type Readers

- Compatible with AY-KR12, AY-K20, and AY-K25 readers

MP-J01



Mount Spacer for J-Type Readers

- Compatible with AY-JR12B, AY-J20B and AY-J25B readers

MP-C02



Flush-Mount Housing for C-Type Keypads

- Compatible with AC-C31 and AC-C32 controllers

MP-G02



Flush-Mount Housing for G-Type Readers and Keypads

- Compatible with AYC-G54 and AYC-G64 convertible readers/controllers and AC-G43 and AC-G44 standalone controllers
- Optional enclosure cover is available

DEMO KITS

DMC-AC225IP



AC-225IP – IP Networked Access Control Demo Case

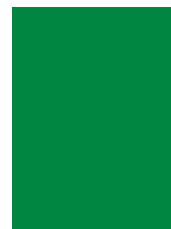
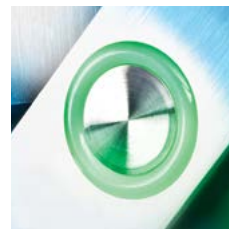
- 1 x AC-225IP Board - Advanced Networked Access Controller
- 1 x MD-D02 – 2-Door Expander
- 1 x MD-14U – RS-485 to USB Converter
- 1 x AY-K25B – Micro-Mullion MIFARE® Smart Card Contactless Reader
- 1 x AY-B3663 – Mini-Fingerprint Swipe Match-on-Card Reader
- 1 x AYC-E65BG – Convertible 2x6 Ultra-Slim Backlit PIN/ Proximity & PIN Reader/Controller
- 1 x EX-17 – Digital Mullion-Size Piezoelectric REX switch
- 1 x 125 kHz Read-Only proximity Ring Tag
- 1 x 125 kHz Read-Only proximity Twist Tag
- 3 x ISO 125 kHz Proximity Read-Only Card
- 1 x MIFARE® Contactless 1K Card
- 1 x power supply

DMC-AYC



Convertible Reader/Controller Series Demo Case

- 1 x AYC-E65BG – Gray Convertible 2x6 Ultra-Slim Backlit PIN/ Proximity & PIN Reader/Controller
- 1 x AYC-W6500 – Fingerprint, Backlit Proximity & PIN Convertible Reader/Controller
- 1 x AYC-Q64B – Convertible Anti-Vandal Backlit 3x4 Proximity & PIN Reader Controller
- 1 x AYC-G64 – Convertible 2x6 Backlit Proximity & PIN Reader/Controller
- 1 x PC-25T – Secured power supply unit – PCB Module, 16 VAC Input
- 1 x 125 kHz Read-Only proximity Ring Tag
- 1 x 125 kHz Read-Only proximity Twist Tag
- 3 x ISO 125 kHz Proximity Read-Only Card
- 1 x power supply



ACCESS CONTROL KITS

AC-K01E/L



AC-215E/L Single-Door Kit
(230/110 VAC Transformer)

AC-K02E/L



AC-215E/L 2-Door Kit
(230/110 VAC Transformer)

AC-K03



Single-Door Networked
Controller Kit

AC-K04E/L, AC-K06E/L, AC-K07E/L



AC-215IP, AC-225 E/L, AC-225IP
2-Door Kit (230/110 VAC transformer)

AC-K14E/L, AC-K15E/L



AC-425 E/L, AC-425IP 2-Door Kit
(230/110 VAC transformer)

AC-K10



Wireless Access Control Door
Interface Kit (MD-W11N, MD-W11F,
MD-W11BP & PS-DC2429)

AC-K16C/F/S



AC-825IP 2-Door Kit
(230/110 VAC transformer)

Model	Controller	MP-K01	AY-KR12B	Credential
AC-K01E/L	AC-215	1	1	50 x EM Compatible ISO Card/Clamshell/Key Fob Ring
AC-K02E/L	AC-215	1	2	50 x EM Compatible ISO Card/Clamshell/Key Fob Ring
AC-K03	AC-115	1	1	50 x EM Compatible ISO Card/Clamshell/Key Fob Ring
AC-K04E/L	AC-215IP	1	2	50 x EM Compatible ISO Card/Clamshell/Key Fob Ring
AC-K06E/L	AC-225	1	2	50 x EM Compatible ISO Card/Clamshell/Key Fob Ring
AC-K07E/L	AC-225IP	1	2	50 x EM Compatible ISO Card/Clamshell/Key Fob Ring
AC-K14E/L	AC-425	1	4	100 x EM Compatible ISO Card/Clamshell/Key Fob Ring
AC-K15E/L	AC-425IP	2	4	100 x EM Compatible ISO Card/Clamshell/Key Fob Ring
AC-K16C/F/S	AC-825IP	2	4	100 x EM Compatible ISO Card/Clamshell/Key Fob Ring

SALES & TECHNICAL SUPPORT

NORTH AMERICA & CANADA

Rosslare Security Products, Inc.

sales.na@rosslaresecurity.com

support.na@rosslaresecurity.com

EUROPE

Rosslare Europe

sales.eu@rosslaresecurity.com

support.eu@rosslaresecurity.com

LATIN AMERICA

Rosslare Latin America

sales.la@rosslaresecurity.com

support.la@rosslaresecurity.com

APAC, MIDDLE EAST AND AFRICA

Rosslare Enterprises Ltd.

sales.apac@rosslaresecurity.com

support.apac@rosslaresecurity.com

Rosslare Electronics (Shenzhen) Ltd.

sales.cn@rosslaresecurity.com

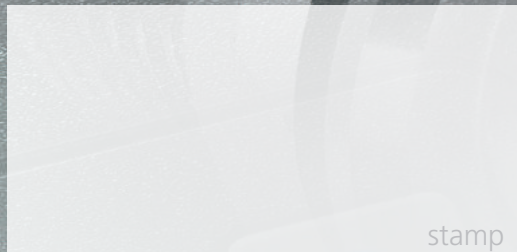
support.cn@rosslaresecurity.com

INDIA

Rosslare Electronics India Pvt Ltd.

sales.in@rosslaresecurity.com

support.in@rosslaresecurity.com



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www.rosslaresecurity.com