

ROSSLARE
SECURITY PRODUCTS

ROSSLARE

ACCESS CONTROL PRODUCT CATALOG

ROSSLARE



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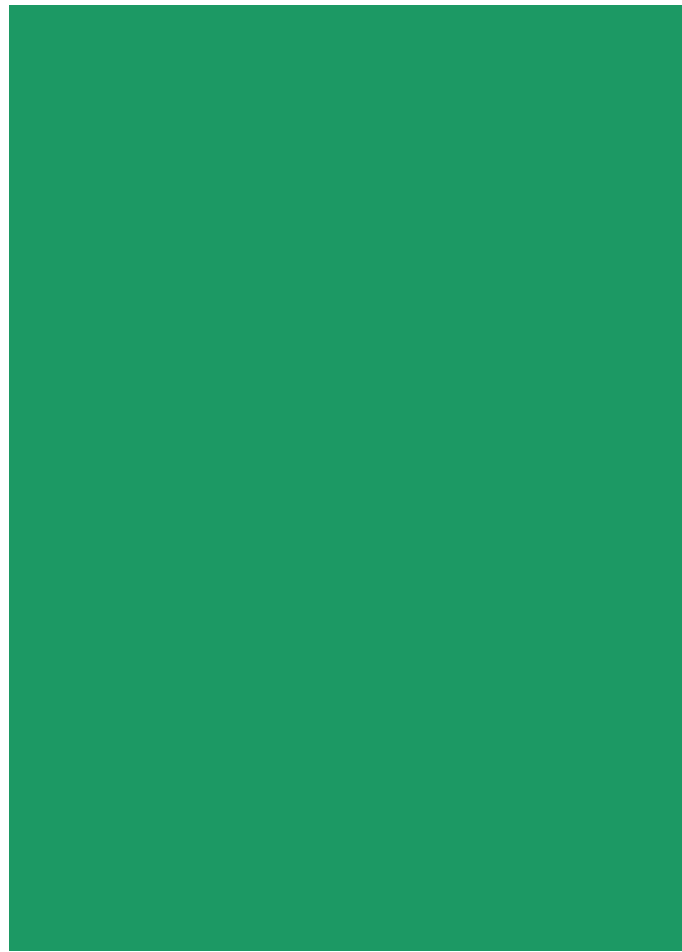
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ACCESS CONTROL



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.

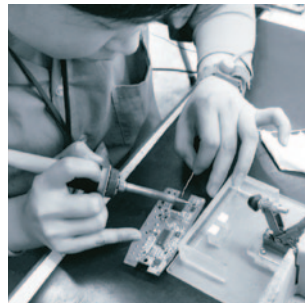


With Rosslare, you receive the

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 13485:2003+AC:2009

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 13485:2003/AC:2009 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 13485:2003+AC:2009 (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.



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-525, AX-NG, AX-AV, AX-TM, MD-D02, MD-D04, MD-IO84	8–11	
	ExpansE™			EXP-1032, EXP-2024, EXP-2088, EXP-2016 ME-00, ME-01P14, ME-12P14, ME-14	12–13	
	Accessories			MD-W11N/F, MD-W11BP, AY-F66	14–15	
	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-F43, AC-G43	20
		Indoor PIN / Proximity & PIN	PIN		AC-A41, AC-B31, AC-C31, AC-D31	21
			Proximity & PIN		AC-A41, AC-B31, AC-C31, AC-D31	21
Readers	UHF			AY-L23G/H, SA-23G/H, AY-U900	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 – MIFARE® Classic	MIFARE® Contactless Smart Card			AY-H25B, AY-L25B, AY-J25B, AY-K25B, AY-M25, AY-M26	24
		MIFARE® Contactless Smart Card Read Sector			AY-M25, AY-M26, AY-W6250W/W6260, AY-W6350W/W6360, AY-Q6250/Q6260, AY-Q6350/Q6360	24–26
	125 kHz – Rosslare Proximity & goPROX™	Proximity			AY-HR12B/H20B, AY-LR12B/L20B, AY-JR12B/J20B, AY-KR12B/K20B, AY-MR12B/M20B	27
		Convertible Proximity & goPROX™			AYC-F64, AYC-G64, AYC-M60, AYC-F60, AYC-G60, AYC-E60B, AYC-E60N, AYC-Q60	28
		Convertible			AY-E20, AYC-E65BW/E65BG/E65BB, AYC-E60B/N, AYC-T65N, AYC-T65B	29
		Anti-Vandal Proximity			AY-Q12, AYC-Q65, AYC-Q64B, AYC-Q60	30
		Multi-Color			AY-R12	31
		Indoor Proximity			AY-CR11W, AY-CR12W, AY-DR11W, AY-DR12W	32
		Indoor Proximity & PIN			AY-C19M, AY-D19M	32
		Long- & Medium-Range Proximity			AY-V12B/C, AY-V64B, AY-Z12A	33

ACCESS CONTROL PRODUCT SELECTION GUIDE

Readers	PIN Only		AYC-F54, AYC-G54, AYC-E55, AYC-Q54B, AY-S55, AY-T55, AY-C09M, AY-D09M	34–35
	Biometric		AY-B4663, AY-B1663, AY-B3663, AY-B1660, AY-B2660/AYC-B7661, AYC-W6500, AS-W6500	36–37
	Modules		MD-12C, MD-12W	37
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	General-Purpose Industrial		PX-13, PX-23, PX-34	41
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	EM Locks Accessories		LA-L12, LA-L06, LA-L03, LA-Z12, LA-Z06, LA-Z03, LA-U12, LA-U03	43–44
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	45–47
Accessories	Card Programmers		CP-R25, CP-R26, AS-B01, CP-R20U	48
			MD-N32, MD-N33, BL-D40, MD-14U, MD-24U, MD-62U, MD-08, MD-08B, MP-Z02, MP-K01, MP-J01, MP-C02, MP-G02	49–50
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CONTROLLERS

AXTRAXNG™ PLATFORM



AC-215



- 5,000 users
- Single/dual door
- Networked up to 1023 panels

Scalable Networked Access Controller

AC-215IP



- 30,000 users
- Single/dual door
- Networked up to 1023 panels

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
- Networked up to 1023 panels

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
- Networked up to 1023 panels

Major Features

- Suitable for medium-scale to large-scale installations
- Networked up to 1023 panels (up to 8184 doors)
- 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
- Provides integration tools (SDK)
- Available in multiple languages

AC-525



Unified Video Enabled, Scalable IP Networked
Access Controller

Major Features

- Compact yet fully featured, fully integrated access controller with digital multimedia, for cost-effective installations and data mining
- Connects to a wide range of analog cameras for better selection and lower cost than IP cameras
- Advanced and robust ISO standard MPEG-4 video and audio encoding and streaming over TCP/IP
- Onboard Edge DVR local video recording
- Embedded Linux OS based Web server provides a comprehensive set of network protocols and a programmable Web browser interface
- Platform is capable of future addition of VMD, Smart Alarm Area Mask, license plate recognition, POS overlay, and more
- Onboard pre-alarm and post alarm recording, event timers, and custom recording preferences
- Onboard USB 2.0 port allows high capacity local recording using USB 2.0 compliant storage devices of up to 8 GB
- Option for video to be recorded by any remote NVR that supports standard MPEG-4
- 2-channel PTZ support for PELCO® D protocol

Networked Controllers – Feature Comparison

Specification	AC-215	AC-215IP	AC-225/IP	AC-525	AC-425/IP
Power Supply Voltage*	220 VAC				
Standby Current Consumption	125 mA	120 mA	80 mA (basic unit)	550 mA	80 mA (basic unit)
Maximum Current Consumption	325 mA	370 mA	325 mA (basic unit)	2.2 A	325 mA (basic unit)
Relay Outputs	4 x Form-C, 5 A		4 x Form-C, 5 A (max. 8, fully programmable*)	4 x Form-C, 5 A (max. 8, fully programmable**)	
Inputs	4 high-impedance		4 (max. 8/12, fully programmable**)	4 (max. 8/12, fully programmable**)	
Dimensions (H x W x D)	326 x 263 x 97 mm (12.8 x 10.4 x 3.82 in.)	264 x 334 x 84.5 mm (10.4 x 13.2 x 3.4 in.)	326 x 263 x 97 mm (12.8 x 10.4 x 3.82 in.)	360 x 342 x 84.5 mm (14.2 x 13.5 x 3.4 in.)	264 x 334 x 84.5 mm (10.4 x 13.2 x 3.4 in.)
Weight	2.4 kg (5.3 lb)	3.8 kg (8.4 lb)	3.8 kg (8.4 lb) (basic unit)	4.5 kg (9.92 lb)	3.8 kg (8.38 lb)
Operating Temperature Range	0°C to 49°C (32°F to 120.2°F)				

* With MD-IO84 or MD-D02

** Available models with 110 VAC transformer or without transformer



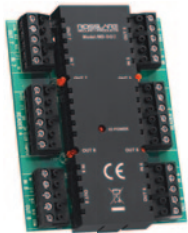
Networked Controllers – Capacity Comparison

Features	AC-215	AC-215IP	AC-225/IP	AC-525	AC-425/IP
Capacity	5,000 + 20,000 (Time & Attendance only)	30,000	30,000	30,000	30,000
Event Log Size	5,000	20,000	20,000	20,000	20,000
Reader Ports	2 x Wiegand/C&D/others	2 x Wiegand/C&D	2 x Wiegand/C&D (max. 4*)	2 x Wiegand/C&D (max. 4*)	4 x Wiegand/C&D (max. 8**)
Connectivity	RS-232/485	TCP/IP, RS-232/485	RS-485/232, dial-up (using MD-N33), onboard TCP/IP (AC-225IP version)	TCP/IP, RS-485	TCP/IP, RS-232/485
Time Zone and Holidays	32/64				
Networking Segment (max.)	32 (1023)				

* Using MD-D02
 ** Using MD-D04

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, AC-525

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, AC-525

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™)



A VMS Solution Supporting IP Cameras and the AC-525 AV Panel

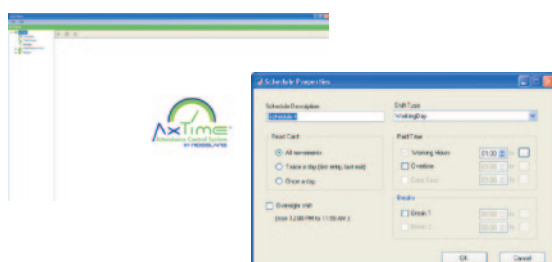


AX-AV

- Full video and audio management for AC-525 and 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

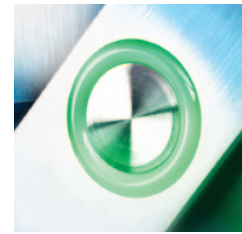


AxTime™ Time & Attendance Client Software



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

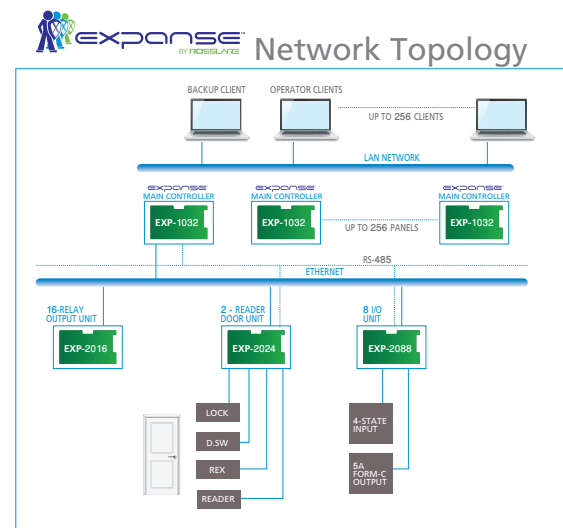


EXPANSE™ PLATFORM

ExpansE™, a distributed architecture access control panel, is designed to provide medium-scale to large-scale applications with a solution that is both powerful and economical. 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. ExpansE’s modern system design is based on the most advanced processing, communication, and powering technologies. 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
 - The more doors installed, the lower the price per door
 - Highly scalable – Expandable to facilitate extremely large applications
 - Extended reliability
- Web application system management
- User capacity: Up to 128,000 users per controller
- Up to 32 nodes per controller
- Up to 32 doors, 64 readers per controller
- Up to 256 inputs per controller
- Up to 512 outputs per controller
- Up to 100,000 history events per controller
- TCP/IP and/or RS-485 communication between controller and secondary units
- 512 multi-segmented time zones and 128 holidays
- Controller capacity: Up to 1023 controllers with intercommunication

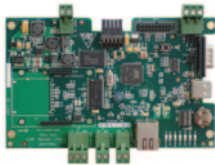


CONTROLLER Specification	
Processor	ARM9 based micro-controller
Processor Clock	240 MHz
Ethernet	10/100 Base T RJ-45 Ethernet connection IEEE802.3
Operating System	Embedded Linux
Supported Browsers	IE (version 6.0 and above), Firefox 3.0, Google Chrome, others
SECONDARY UNITS	
EXP-2024, 2-Reader Door 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	Self-powered metal enclosure for end units with 7 Ah battery backup*
ME-12	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

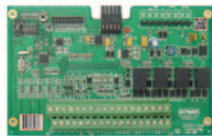
EXPANSE™ COMPONENTS

EXP-1032



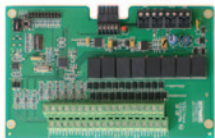
ExpansE™ Networked Controller

EXP-2024



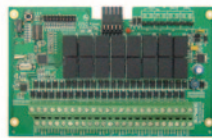
2-Reader Door Unit

EXP-2088



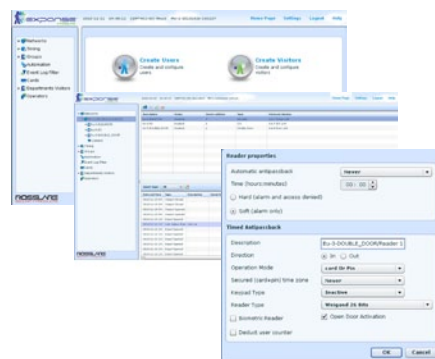
8-Input/Output Unit

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 and additional services, including real-time monitoring, from any panel and computer on the network.

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



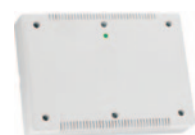
Single-Board Self-Powered Metal Enclosure

ME-12-P14

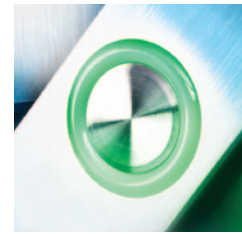


Single-Board Self-Powered Plastic Enclosure

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
Max. Input Current (12 VDC)		160 mA		N/A
Standby Input Current (12 VDC)		70 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 3.42 x 1.26 in.)	13 x 8.7 x 3.2 cm (5.1 x 3.42 x 1.26 in.)	13 x 6.9 x 3.4 cm (5.1 x 2.72 x 1.34 in.)
Weight		155 g (5.47 oz)	155 g (5.47 oz)	430 g (15.17 oz) including BT-05 battery

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 29.6 mm (4.72 x 2.80 x 1.17 in.)
Weight	230 g (8.11 oz)



WIEGAND CONTROLLERS

AC-115



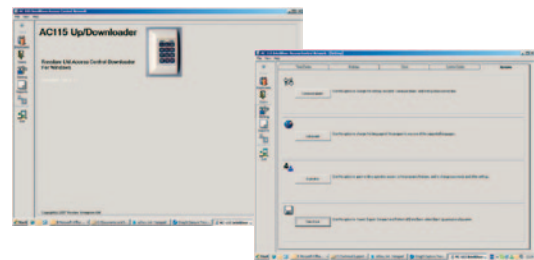
Compact Networked Single-Door Controller

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

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 (5.28 x 3.35 x 1.18 in.)
Weight	220 g (7.76 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 Zone and Holidays	8/24
Networking Segment (max.)	8

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

AC-015



- Single-Door, 2-Reader Standalone Controller
- Single-Door controller (IN/OUT)
 - 5 A lock relay
 - 1 A tamper output

AC-020



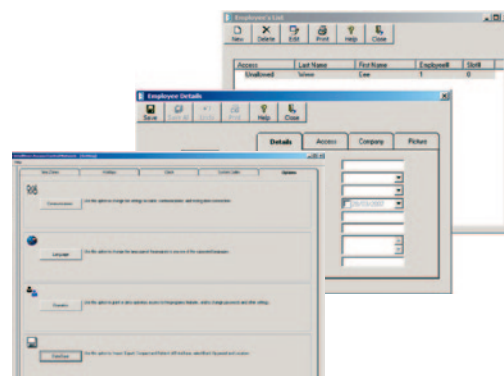
- Dual-Door, 2-Reader Standalone Controller
- Dual-Door Controller (IN/IN)
 - 2 x 5 A relays

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 (7.76 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 Standalone 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	12–24 VDC					
	VAC	12–24 VDC		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 (4.72 x 3 x 1.06 in.)				120 x 76 x 22 mm (4.72 x 2.99 x 0.85 in.)		
Weight	440 g (15.52 oz)				521 g (18.38 oz)		

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

**Measured using a Rosslare clamshell proximity card or equivalent. Range also depends on the electrical environment and proximity to metal.

ANTI-VANDAL PIEZOELECTRIC STANDALONE CONTROLLERS

- High sensitivity piezoelectric keypad

AC-S43



Anti-Vandal Mullion Piezoelectric PIN Standalone Controller

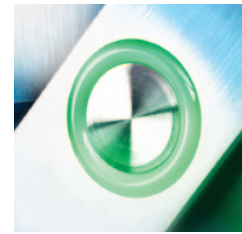
AC-T43



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 (5.91 x 1.65 x 1.10 in.)	120 x 65 x 27 mm (4.72 x 2.56 x 1.06 in.)
Weight	400 g (14.11 oz)	

*Measured using a Rosslare clamshell proximity card or equivalent. Range also depends on the electrical environment 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 (2.95 in.)	N/A	80 mm (3.15 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 (4.72 x 2.80 x 1.17 in.)		135.4 x 44.2 x 28.5 mm (5.33 x 1.74 x 1.12 in.)	
Weight	244 g (8.61 oz)		178 g (6.28 oz)	

*Measured using a Rosslare clamshell proximity card or equivalent. Range also depends on the electrical environment 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



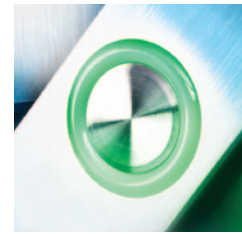
Indoor PIN / Proximity & PIN Standalone Controller

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 (2.75 in.)	N/A	90 mm (3.5 in.)
Operating Temperature Range	-32°C to 63°C (-25°F to 145°F)		-31°C to 63°C (-25°F to 145°F)					
Dimensions (H x W x D)	122 x 75 x 24 mm (4.80 x 2.95 x 0.94 in.)		92 x 92 x 24 mm (3.62 x 3.62 x 0.94 in.)		130 x 42 x 18 mm (5.12 x 1.65 x 0.71 in.)		122 x 75 x 4 mm (4.80 x 2.95 x 0.94 in.)	
Weight	140 g (4.94 oz)		130 g (4.59 oz)		70 g (2.47 oz)		130 g (4.59 oz)	

*Measured using a Rosslare clamshell proximity card or equivalent. Range also depends on the electrical environment and proximity to metal.



READERS

UHF READERS

AY-L23G/H



Extra Long-Range RF Reader

Specification	SA-23G/H
Input Voltage	3 V Battery (CR2450)
Input Current: Standby (12 VDC)	< 1 uA
Input Current: Max (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 (2.28 x 1.61 x 0.53 in.)

SA-23G/H



Dual Channel Transmitter for AY-L23 Receiver

Specification	AY-L23G/H
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 (1.10 lb)

AY-U900



UHF Integrated Long-Range Reader

Specification	AY-U900
Operating Voltage Range	9 to 12 VDC (2 A)
Input Current: Standby (12 VDC)	0.2 A max
Input Current: Max (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 (17.52 x 17.52 x 2.64 in.)
Weight	2.32 kg (5.11 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 and an integral sounder
- Compatible with MIFARE Classic and MIFARE DESFire EV1 cards
- Supports SIA Open Supervised Device Protocol (OSDP)
- Back and cover optical tamper detection and output
- Default operation as a multi-format reader (Wiegand 26-Bit, RS-485)
- General user identification with identity card (AY-H6270, AY-H6280, AY-G6270, AY-G6280) or with identity card and PIN code (AY-H6370, AY-H6380, AY-G6370, AY-G6380)
- Fully compliant with ISO 14443A



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		35 mA		35 mA	35 mA
Maximum Input Current	55 mA		55 mA		55 mA	55 mA
Tamper Output	Open collector, active Low, max sink current 30 mA					
Max. Read Range*	45 mm (1.77 in.)		45 mm (1.77 in.)		40 mm (1.57 in.)	40 mm (1.57 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 (4.72 x 3.15 x 0.90 in.)		120 x 80 x 31 mm (4.72 x 3.15 x 1.22 in.)		145.3 x 42 x 23 mm (5.72 x 1.65 x 0.90)	145.3 x 42 x 23 mm (5.72 x 1.65 x 0.90)
Weight	201.0 g (7.09 oz)	209.0 g (7.37 oz)	209.0 g (7.37 oz)	217.0 g (7.65 oz)	155 g (5.47 oz)	155 g (5.47 oz)



13.56 MHz MIFARE® CLASSIC – 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 (2.36 in.)	70 mm (2.76 in.)	45 mm (1.77 in.)		70 mm (2.76 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)	79.91 x 39.91 x 12.8 mm (3.15 x 1.57 x 0.50 in.)	109.9 x 74.9 x 15 mm (4.33 x 2.95 x 0.59 in.)	144.9 x 42.9 x 20 mm (5.70 x 1.69 x 0.79 in.)	119.95 x 41.95 x 14 mm (4.72 x 1.65 x 0.55 in.)	88.9 x 88.9 x 15 mm (3.50 x 3.50 x 0.59 in.)	89 x 89 x 15 mm (3.50 x 3.50 x 0.59 in.)
Weight	75.49 g (2.66 oz)	119.87 g (4.23 oz)	115.19 g (4.06 oz)	88.5 g (3.12 oz)	120.25 g (4.24 oz.)	116 g (4.09 oz)

* Tested with MIFARE Classic 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 (2.56 in.)	70 mm (2.76 in.)	45 mm (1.77 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 (4.92 x 3.27 x 1.16 in.)		125 x 83 x 29.5 mm (4.92 x 3.27 x 1.16 in.)	
Weight	230 g (8.11 oz)			

* Tested with MIFARE Classic 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		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 (1.77 in.)	30 mm (1.18 in.)	45 mm (1.77 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 (4.72 x 3 x 0.97 in.)	120 x 76 x 22 mm (4.72 x 3 x 0.97 in.)	120 x 76 x 22 mm (4.72 x 3 x 0.97 in.)	
Weight	500 g (17.64 oz)	440 g (15.52 oz)	500 g (17.64 oz)	440 g (15.52 oz)

* Tested with MIFARE Classic 1K NXP based card.

125 KHz – ROSSLARE PROXIMITY & GOPROX™

PROXIMITY READER SERIES

AY-HR12B/H20B



US Gang Box Sized Proximity Reader

AY-LR12B/L20B



Mullion Proximity Reader

AY-JR12B/J20B



Mini-Mullion Proximity Reader

AY-KR12B/K20B



Micro-Mullion Proximity Reader

AY-MR12B/M20B



UK Gang Box Sized Proximity Reader

AY-x12B

- Wiegand 26-Bit read format
- Bi-colored LED
- LED color control input

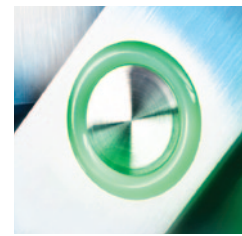
AY-x20B

- 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

Specification	AY-x12B	AY-x20B
Operating Voltage Range	5–16 VDC	
Input Current	J, K	Standby: 35 mA, Maximum: 55 mA
	H, L, M	
Tamper Output	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	

Specification	Dimensions (H x W x D)	Weight	Read Range*
AY-HR12B/H20B	109.9 x 74.9 x 15 mm (4.33 x 2.95 x 0.59 in.)	100 g (3.53 oz)	12 cm (4.71 in.)
AY-JR12B/J20B	119.95 x 41.95 x 14 mm (4.70 x 1.65 x 0.55 in.)	88.5 g (3.12 oz)	10 cm (3.94 in.)
AY-KR12B/K20B	79.9 x 39.9 x 12.8 mm (3.15 x 1.57 x 0.50 in.)	70.5 g (2.49 oz)	8 cm (3.15 in.)
AY-LR12B/L20B	144.9 x 42.9 x 20 mm (5.70 x 1.69 x 0.79 in.)	116 g (4.09 oz)	12 cm (4.71 in.)
AY-MR12B/M20B	88.9 x 88.9 x 15 mm (3.50 x 3.50 x 0.59 in.)	109 g (3.85 oz)	10 cm (3.94 in.)

*Measured using a Rosslare clamshell proximity card or equivalent. Range also depends on the electrical environment 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)				
Input Current: Standby (12 VDC)	105 mA			100 mA	
Input Current: Max (16 VDC)	140 mA			140 mA	
Tamper Output	Open collector, active low, max sink current 32 mA				
Max Proximity Card Read Range*	80 mm (3.15 in.)			60 mm (2.36 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 (4.72 x 2.99 x 0.83 in.)	137 x 44 x 21 mm (5.39 x 1.73 x 0.83 in.)	93 x 93 x 18 mm (3.63 x 3.63 x 0.70 in.)	120 x 76 x 21 mm (4.72 x 2.99 x 0.83 in.)	137 x 44 x 21 mm (5.39 x 1.73 x 0.83 in.)
Weight	215 g (7.58 oz)	160 g (5.64 oz)	185 g (6.52 oz)	230 g (8.11 oz)	175 g (6.17 oz)

*Measured using a Rosslare clamshell proximity card or equivalent. Range also depends on the electrical environment and proximity to metal.

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



AY-E20



Outdoor
Ultra-Slim
Flush-Mount
Reader

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



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

AYC-T65B



General features

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

Specification	AY-E20	AYC-E65B	AYC-E60	AYC-T65
Operating Voltage Range	5–16 VDC (in Reader mode, from controller)			
Input Current: Standby (12 VDC)	100 mA	92 mA	110 mA	92 mA
Input Current: Max (16 VDC)	40 mA	105 mA	130 mA	105 mA
Tamper Output	Open collector, active low, max sink current 16 mA	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*	3.5 cm (1.37 in.)	40 mm (1.58 in.)		
Operating Temp. Range	-31°C to 63°C (-24°F to 145°F)		-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	ASK/FSK	ASK
Dimensions (H x W x D)	155 x 45 x 8 mm (6.1 x 1.77 x 0.31 in.)	155 x 44 x 9 mm (6.10 x 1.73 x 0.35 in.)		121 x 70 x 8 mm (4.77 x 2.76 x 0.31 in.)
Weight	135 g (4.76 oz)	143 g (5.04 oz)	143 g (5.04 oz)	121 g (4.27 oz)

*Measured using a Rosslare clamshell proximity card or equivalent. Range also depends on the electrical environment 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	130 mA	130 mA
Standby Input Current	35 mA	90 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 in.)	45 mm (1.77 in.)	45 mm (1.77 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 (4.72 x 3 x 1.06 in.)	120 x 76 x 21 mm (4.72 x 2.99 x 0.83 in.)		
Weight	521 g (1.18 lb)	480 g (1.05 lb)	480 g (1.06 lb)	

*Measured using a Rosslare clamshell proximity card or equivalent. Range also depends on the electrical environment and proximity to metal.

MULTI-COLOR ILLUMINATION READERS

AY-R12



Outdoor RGB Illuminated Reader

Major Features

- 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 (3.12 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 (4.72 x 3.50 x 0.83 in.)
Weight	202 g (7.10 oz)

*Measured using a Rosslare clamshell proximity card or equivalent. Range also depends on the electrical environment 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 (2.36 in.)	80 mm (3.15 in.)	100 mm (3.94 in.)	N/A	80 mm (3.15 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 (5.12 x 1.64 x 0.75 in.)		122 x 74 x 18.5 mm (4.80 x 2.91 x 0.73 in.)		122 x 75 x 24 mm (4.80 x 2.95 x 0.94 in.)	
Weight	75 g (2.65 oz)	70 g (2.47 oz)	100 g (3.53 oz)		115 g (4.06 oz)	114 g (4.02 oz)

*Measured using a Rosslare clamshell proximity card or equivalent. Range also depends on the electrical environment and proximity to metal.

LONG-RANGE AND MEDIUM-RANGE PROXIMITY READERS

AY-V12B/C



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/C	AY-V64B	AY-Z12A
Operating Voltage	5--6 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 (9 in.)	220 mm (9 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 (4.92 x 4.92 x 0.83 in.)		300 x 300 x 25 mm (11.8 x 11.8 x 0.98 in.)
Weight	285 g (10.05 oz)		1066 g (2.4 lb)

*Measured using a Rosslare clamshell proximity card or equivalent. Range also depends on the electrical environment and proximity to metal.



PIN ONLY READERS

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)			
Input Current: Standby (12 VDC)	75 mA		15 mA	65 mA
Input Current: Max (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	
Max Proximity Card Read Range*	N/A	N/A	N/A	N/A
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 (4.72 x 2.99 x 0.83 in.)	137 x 44 x 21 mm (5.39 x 1.73 x 0.83 in.)	155 x 44 x 6.5 mm (6.10 x 1.73 x 0.26 in.)	120 x 76 x 21 mm (4.72 x 2.99 x 0.83 in.)
Weight	215 g (7.58 oz)	160 g (5.64 oz)	120 g (4.23 oz)	480 g (16.93 oz)

*Measured using a Rosslare clamshell proximity card or equivalent. Range also depends on the electrical environment and proximity to metal.

AY-S55



Anti-Vandal Piezoelectric
2x6 PIN Reader

AY-T55



Anti-Vandal Piezoelectric
3x4 PIN Reader

AY-C09M



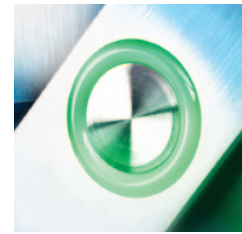
Indoor Mullion PIN Reader

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)	
Input Current: Standby (12 VDC)	60 mA	55 mA	30 mA	
Input Current: Max (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 (5.12 x 1.642 x 0.748 in.)	122 x 75 x 24 mm (4.80 x 2.95 x 0.94 in.)	150 x 42 x 27 mm (5.91 x 1.65 x 1.06 in.)	120 x 65 x 27 mm (4.72 x 2.56 x 1.06 in.)
Weight	70 g (2.47 oz)	110 g (3.88 oz)	400 g (14.11 oz)	500 g (17.64 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 control inputs
- Supports both 1:1 and 1:N modes

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 for AYC-W6500

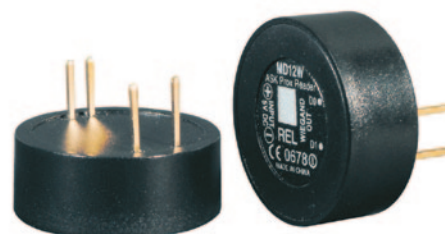
Specification	AYC-W6500	AY-B1663	AY-B3663	AY-B4663	AY-B1660	AY-B2660
Operating Voltage Range	10–16 VDC (Reader mode, from controller)	6–16 VDC			5–16 VDC	
Standby Input Current	140 mA	85 mA			60 mA	
Maximum Input Current	330 mA	513 mA			135 mA	
Tamper Output	Open Collector Output	Open collector, active 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 in.)	40 mm (1.57 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 (5.16 x 4.92 x 1.38 in.)	70.1 x 54.1 x 39.1 mm (2.76 x 2.13 x 1.54 in.)	84.1 x 54.1 x 20.9 mm (3.31 x 2.13 x 0.82 in.)	85.4 x 50.6 x 27 mm (3.36 x 1.99 x 1.06 in.)	100 x 54 x 42 mm (3.94 x 2.13 x 1.65 in.)	102 x 54 x 32 mm (4.02 x 2.13 x 1.26 in.)
Weight	270 g (9.52 oz)	81.5 g (2.88 oz)	106 g (3.74 oz)	94.5 g (3.33 oz)	79 g (2.79 oz)	156 g (5.50 oz)

READER MODULES

MD-12C

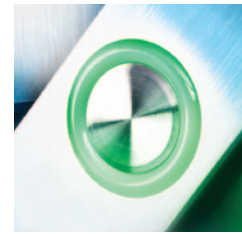


MD-12W



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 (0.35 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



Credential Technology	Programmable Memory Size						Type	Format				Shape					Label							
	32 Bytes	64 Bytes	1K	2K	4K	8K		Read-Only	Not Programmed	Programmed	O2S – Rosslare Keys	O2S – OEM Keys 2	Wiegand 26-Bit	Wiegand 38-Bit (Rosslare)	Not Formatted	ID Printing		ISO PVC	ISO PVC/PET	Clamshell	Ring	Shark	Twisted	Hard Tag
UHF ALIEN H-3		✓						✓	✓					✓	1	✓	✓						✓	✓
UHF ALIEN H-3 + MIFARE® Classic		✓			✓			✓	✓					✓	✓	✓								
13.56 MHz HF MIFARE® Classic – 4UID			✓		✓			✓	✓	✓		✓	✓			✓	✓							
13.56 MHz HF MIFARE® Classic – 7UID			✓		✓			✓	✓	✓		✓	✓						✓	✓	✓			
13.56 MHz HF MIFARE Plus® S				✓	✓			✓	✓	✓		✓	✓			✓			✓	✓	✓			
13.56 MHz HF MIFARE Plus® X				✓	✓			✓	✓	✓		✓	✓			✓			✓	✓	✓			
13.56 MHz HF MIFARE DESFire® EV1				✓	✓	✓		✓	✓	✓		✓	✓			✓	✓		✓	✓	✓			
125 kHz LF TEMIC (ASK)	✓													✓		✓		✓						
125 kHz LF EM	✓								✓			✓			✓	✓		✓	✓		✓			

¹ Not available on all models

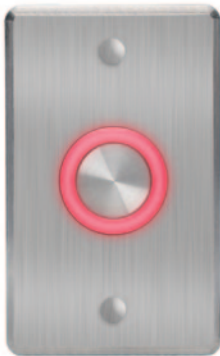
² Upon customer request

SWITCHES

SECURITY SERIES



EX-06



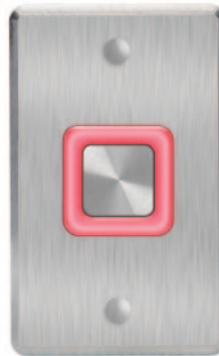
Analog Piezoelectric REX Switch with Toggle Option

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



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-04	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

- External power source not required
- Easy to install

PX-23 / PX-34



Piezoelectric buttons with LED indicator, designed and developed using advanced technology

- Easy to install
- Wide range of voltage input to turn on the LED
- 2-LED control inputs
- External power source not required (PX-23)



Piezoelectric buttons with light ring indication, designed and developed using advanced technology

Electrical Specification	PX-13	PX-23	PX-34
Input Voltage Range	5–12 VDC/AC		12 VDC/AC
Input Current	≤1 A		
Contact Resistance	<100 Ohm		
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 (0.77 in.)		
Diameter	29.5 mm (1.16 in.)		
Standard Thread	22 mm (0.87 in.)		
Standard Wires	24 AWG wire (UL1569)		
Pigtail Length	280 mm (11.02 in.)		
Weight	22 g (0.78 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-04/06/07 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 1200 pounds holding force

LK-M06L



Surface-Mounted Magnetic Lock with 600 pounds holding force

LK-M03



Surface-Mounted Magnetic Lock with 300 pounds holding force

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-M03L
L&Z Bracket for LK-M03L

LA-U12



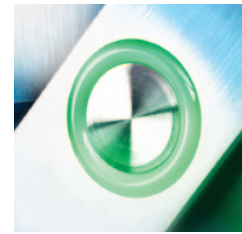
U-Bracket for glass door for use with LK-M12L & LK-M06L

LA-U03



U-Bracket for glass door for LK-M03L

ACCESS CONTROL



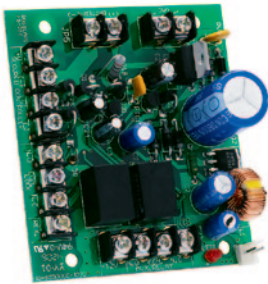
Maglocks Specification	LK-M03	LK-M06L	LK-M12L
Voltage VDC	Dual Voltage 12/24 VDC		
Current	12 VDC: 360 mA 24 VDC: 180 mA	12 VDC: 500 mA 24 VDC: 250 mA	
Holding Force	136 kg (300 lb)	272 kg (600 lb)	544 kg (1200 lb)
Dimensions (L x W x D)	Main: 166 x 38.6 x 21.5 mm (6.53 x 1.52 x 0.85 in.) Contact: 129 x 31.5 x 7.5 mm (5.08 x 1.24 x 0.30 in.)	Main: 250 x 47.2 x 26.6 mm (9.84 x 1.86 x 1.05 in.) Contact: 185 x 37.5 x 11.5 mm (7.28 x 1.47 x 0.45 in.)	Main: 266 x 73 x 40 mm (10.47 x 2.87 x 1.57 in.) Contact: 184 x 60 x 16 mm (7.24 x 2.36 x 0.63 in.)
Weight	Main: 0.63 kg (1.39 lb) Contact: 0.25 kg (0.55 lb)	Main: 1.22 kg (2.69 lb) Contact: 0.66 kg (1.45 lb)	Main: 3.09 kg (6.81 lb) Contact: 1.39 kg (3.06 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 (6.54 x 1.18 x 1.65 in.)	250 x 30 x 48 mm (9.8 x 1.18 x 1.89 in.)	266 x 38 x 76 mm (10.5 x 1.5 x 2.99 in.)	166 x 38 x 38 mm (6.54 x 1.50 x 1.50 in.)	185 x 50 x 50 mm (7.3 x 1.97 x 1.97 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 (5.12 x 2.44 x 1.32 in.)	185 x 62 x 33.6 mm (7.28 x 2.44 x 1.32 in.)
Weight	145 g (5.11 oz)	233 g (8.22 oz)	474 g (16.72 oz)	376 g (13.26 oz)	457 g (16.12 oz)	746 g (1.64 lb)	378 g (13.33 oz)	550 g (1.21 lb)

POWER SUPPLIES

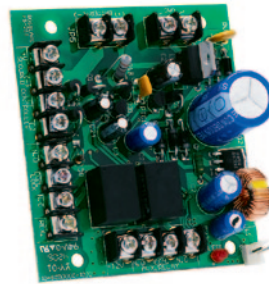
POWER SUPPLIES

PC-25T



Secured power supply unit – PCB Module,
16 VDC Input

PC-25LT



Secured power supply unit – PCB Module,
18 to 33 VDC Input

PS-A25T



Intelligent Secured Power Supply
Type A Box

PS-C25T, PS-C25TU, PS-C25LT



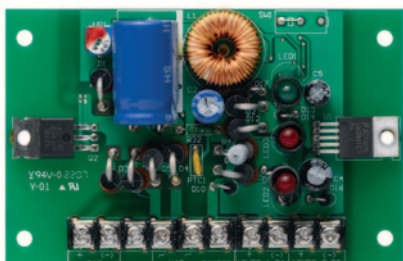
Intelligent Dual-Relay Secured Power Supply Type C Box
(PS-C25T)
US Version (PS-C25TU), C Box without transformer (PS-
C25LT)

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)

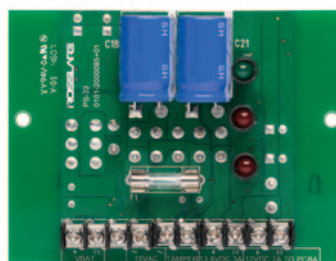


PS-14



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, 2A and 12 VDC, 3 A power outputs and 13.8 VDC for backup battery charging of up to 7 Ah

PS-30F

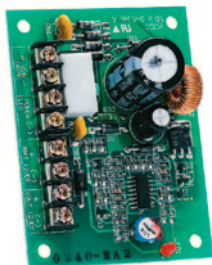


DIN Rail Mounted AC-DC Power Supply

- 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	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	No (8 Ohm, 0.25 W minimum output)		
Speaker	up to 7 AH maximum charge current 1.2 A			
Battery Backup	DC output LED indicator on PCB			
Visual Indicators	Short circuit and thermal overload protection, includes battery leads			
Additional Features Communications	Rosslare proprietary protocol			
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 (8.85 x 9.05 x 3 in.)	
Weight	1.24 kg (2.73 lb)	2.44 kg (5.38 lb)	1.5 kg (3.31 lb)	

PC-P16



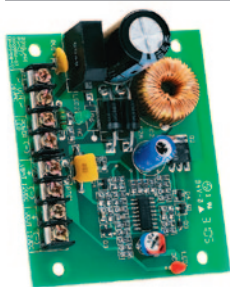
12 VDC, 1.2 A Power Supply PCB Unit

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-C18



12 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



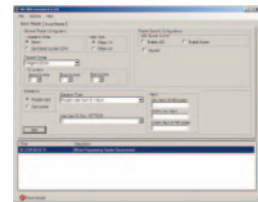
Desktop MIFARE® and Swipe Fingerprint Card Programmer

CP-R26



Desktop MIFARE® and Full Fingerprint Card Programmer

AS-B01



Management Software for Biometric Readers

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 programming (NXP based)

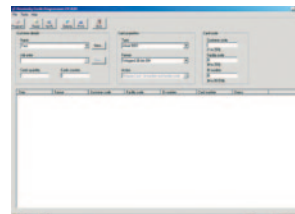
CP-R20U



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

Card Programmer PC Software



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

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

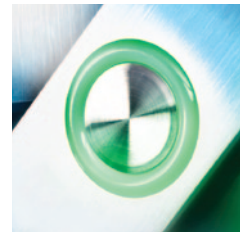


Wiegand 26-Bit to RS-232 Output Converter

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-JR12, AY-J20, and AY-J25 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

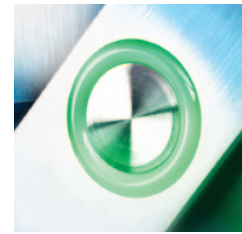
- 1 x AC-225IP Board - Advanced Networked Access Controller
- 1 x MD-D02 - Two Door Expander
- 1 x MD-14U - RS-485 to USB Converter
- 1 x AY-K25B - Micro-Mullion MIFARE® Smartcard Contactless Reader
- 1 x AY-B3663 - Mini Fingerprint Swipe Match-on-Card Reader
- 1 x AYC-E65BG - Convertible 2x6 Ultra-Slim 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 PIN & Proximity Convertible Reader / Controller
- 1 x AYC-Q64B - Convertible Anti-Vandal Backlit 3x4 PIN & Prox Reader Controller
- 1 x AYC-G64 - Convertible 2x6 Backlit PIN & Prox 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-215IP E/L 2-Door Kit
(230/110 VAC Transformer)

AC-K06E/L



AC-225E/L 2-Door Kit (230/110
VAC Transformer)

AC-K07E/L



AC-225IP E/L 2-Door Kit
(230/110 VAC Transformer)

AC-K10



Wireless Access Control Door
Interface Kit

AC-K14E/L



AC-425E/L 2-Door Kit (230/110
VAC Transformer)

AC-K15E/L



AC-425IP E/L 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






Credentials Appendix

UHF ALIEN HIGGS – 3 SERIES

UHF ALIEN HIGGS-3 SERIES CREDENTIALS

For use with AY-U900 reader series



	Part Number	Type	Technology	Prog. Mem. 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	4K	ISO Card (PVC)	Not Formatted	No ID Printed

TEMIC SERIES

For use with Proximity & goPROX Readers







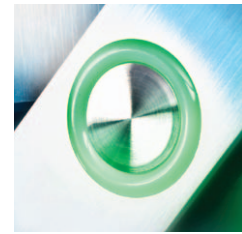
CP-R20U



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

	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, PLUS S, PLUS X, & DESFIRE® EV1

MIFARE® CLASSIC 1K SERIES

For use with O2S Reader series



	Part Number	Type	Technology	Prog. Mem. Size	Form Factor	Format	ID Printing
	AT-D1S-000-0001 (was AT-T512)	Not Programmed	MIFARE Classic – 4UID	1K	ISO Card (PVC)	Not Formatted	No ID Printed
	AT-C1S-000-0000	Not Programmed	MIFARE Classic – 7UID	1K	ISO Card (PVC)	Not Formatted	No ID Printed
	RT-C1S-26A-3000	O2S – Rosslare Keys	MIFARE Classic – 7UID	1K	ISO Card (PVC)	Wiegand 26-Bit	Inkjet – FC & Card ID (decimal)
	RT-C1S-38A-3000	O2S – Rosslare Keys	MIFARE Classic – 7UID	1K	ISO Card (PVC)	Wiegand 38-Bit (Rosslare Proprietary)	Inkjet – FC & Card ID (decimal)
	AT-D1K-000-05B0 (was AT-T551B)	Not Programmed	MIFARE Classic – 4UID	1K	Key Fob	Not Formatted	No ID Printed
	AT-C1K-000-05B0	Not Programmed	MIFARE Classic – 7UID	1K	Key Fob	Not Formatted	No ID Printed
	RT-C1K-26A-75B0	O2S – Rosslare Keys	MIFARE Classic – 7UID	1K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-C1K-38A-75B0	O2S – Rosslare Keys	MIFARE Classic – 7UID	1K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)
	AT-C1K-000-0RB0	Not Programmed	MIFARE Classic – 7UID	1K	Key Fob	Not Formatted	No ID Printed
	RT-C1K-26A-7RB0	O2S – Rosslare Keys	MIFARE Classic – 7UID	1K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-C1K-38A-7RB0	O2S – Rosslare Keys	MIFARE Classic – 7UID	1K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)
	AT-C1K-000-0TB0	Not Programmed	MIFARE Classic – 7UID	1K	Key Fob	Not Formatted	No ID Printed
	RT-C1K-26A-7TB0	O2S – Rosslare Keys	MIFARE Classic – 7UID	1K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-C1K-38A-7TB0	O2S – Rosslare Keys	MIFARE Classic – 7UID	1K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)

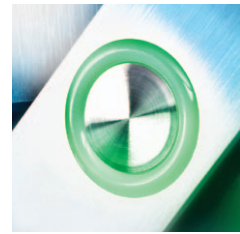
MIFARE® CLASSIC 4K SERIES

For use with O2S Reader series



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

ACCESS CONTROL



MIFARE® PLUS S 2K SERIES

For use with O2S Reader series



	Part Number	Type	Technology	Prog. Mem. 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-000-0SB0	Not Programmed	MIFARE Plus S	2K	Key Fob	Not Formatted	No ID Printed
	RT-P2K-26A-7SB0	O2S – Rosslare Keys	MIFARE Plus S	2K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-P2K-38A-7SB0	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)

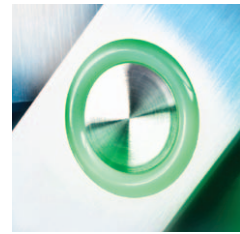
MIFARE® PLUS S 4K SERIES

For use with O2S Reader series



	Part Number	Type	Technology	Prog. Mem. 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-000-0S00	Not Programmed	MIFARE Plus S	4K	Key Fob	Not Formatted	No ID Printed
	RT-P4K-26A-7S00	O2S – Rosslare Keys	MIFARE Plus S	4K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-P4K-38A-7S00	O2S – Rosslare Keys	MIFARE Plus S	4K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)
	AT-P4K-000-0R00	Not Programmed	MIFARE Plus S	4K	Key Fob	Not Formatted	No ID Printed
	RT-P4K-26A-7R00	O2S – Rosslare Keys	MIFARE Plus S	4K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-P4K-38A-7R00	O2S – Rosslare Keys	MIFARE Plus S	4K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)
	AT-P4K-000-0T00	Not Programmed	MIFARE Plus S	4K	Key Fob	Not Formatted	No ID Printed
	RT-P4K-26A-7T00	O2S – Rosslare Keys	MIFARE Plus S	4K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-P4K-38A-7T00	O2S – Rosslare Keys	MIFARE Plus S	4K	Key Fob	Wiegand 38-Bit (Rosslare Proprietary)	Laser Engraving – FC & Card ID (decimal)

ACCESS CONTROL



MIFARE® PLUS X 2K SERIES

For use with O2S Reader series



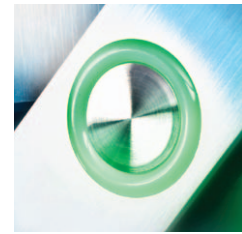
	Part Number	Type	Technology	Prog. Mem. Size	Form Factor	Format	ID Printing
	AT-X2S-000-0000	Not Programmed	MIFARE Plus X	2K	ISO Card (PVC)	Not Formatted	No ID Printed
	RT-X2S-26A-3000	O2S – Rosslare Keys	MIFARE Plus X	2K	ISO Card (PVC)	Wiegand 26-Bit	Inkjet – FC & Card ID (decimal)
	RT-X2S-38A-3000	O2S – 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)

MIFARE® PLUS X 4K SERIES

For use with O2S Reader series



	Part Number	Type	Technology	Prog. Mem. 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	Prog. Mem. 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-0S0	Not Programmed	MIFARE DESFire EV1	2K	Key Fob	Wiegand 26-Bit	No ID Printed
	RT-V2K-26A-7S0	O2S – Rosslare Keys	MIFARE DESFire EV1	2K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-V2K-38A-7S0	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)

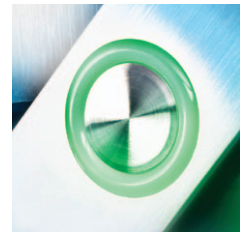
MIFARE® DESFIRE EV1 4K SERIES

For use with O2S Reader series



	Part Number	Type	Technology	Prog. Mem. 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-0SB0	Not Programmed	MIFARE DESFire EV1	4K	Key Fob	Wiegand 26-Bit	No ID Printed
	RT-V4K-26A-7SB0	O2S – Rosslare Keys	MIFARE DESFire EV1	4K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-V4K-38A-7SB0	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)

ACCESS CONTROL



MIFARE® DESFIRE EV1 8K SERIES









For use with O2S Reader series



	Part Number	Type	Technology	Prog. Mem. 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-0SBO	Not Programmed	MIFARE DESFire EV1	8K	Key Fob	Wiegand 26-Bit	No ID Printed
	RT-V8K-26A-7SBO	O2S – Rosslare Keys	MIFARE DESFire EV1	8K	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	RT-V8K-38A-7SBO	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)

EM SERIES For use with Proximity & goPROX Readers



	Part Number	Type	Technology	Prog. Mem. Size	Form Factor	Format	ID Printing
	AT-ERC-26A-3001 (was AT-R14C)	Not Programmed	EM	Read-Only	Clamshell Card	Wiegand 26-Bit	Inkjet – FC & Card ID (decimal)
	AT-ERC-26A-3000	Not Programmed	EM	Read-Only	Clamshell Card	Wiegand 26-Bit	Inkjet – FC & Card ID (decimal)
	AT-ERS-26A-3001 (was AT-R11C)	Not Programmed	EM	Read-Only	ISO Card (PVC)	Wiegand 26-Bit	Inkjet – FC & Card ID (decimal)
	AT-ERS-26A-3000	Not Programmed	EM	Read-Only	ISO Card (PVC)	Wiegand 26-Bit	Inkjet – FC & Card ID (decimal)
	AT-ERK-26A-7RB0 (was AT-R261BL)	Not Programmed	EM	Read-Only	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	AT-ERK-26A-7RL0	Not Programmed	EM	Read-Only	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	AT-ERK-26A-7TB0 (was AT-R271BL)	Not Programmed	EM	Read-Only	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)
	AT-ERK-26A-7TL0	Not Programmed	EM	Read-Only	Key Fob	Wiegand 26-Bit	Laser Engraving – FC & Card ID (decimal)

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