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Quick Selection Guide
Access Control Systems

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Reliable and flexible solutions for any project

Card readers – 125 kHz

Material description	Card reader, HIDprox, mini mullion	Card reader, HIDprox, mullion	Card reader with keypad, HIDprox
Commercial type number (CTN)	ARD-PROX-PPL	ARD-MINIPROX	ARD-ENTRYPROX
Bosch controller compatibility	AMC2-4WCF, AEC, B/G-series**	AMC2-4WCF, AEC, B/G-series**	Standalone device
Software compatibility (Min. requirement)	APE, BIS-ACE, AEC	APE, BIS-ACE, AEC	–
Controller interface (Protocol)	Wiegand	Wiegand	–
Wiring connection	Pigtail	Pigtail	Terminal strip
Read / Write ability	Read	Read	Read
Reading format	HID Prox	HID Prox	HID Prox
Operating voltage	5 – 16 VDC	5 – 16 VDC	10 – 16 VDC
Degree of protection (IP)	IP65	IP68	IP50
Read range	60 mm*	130 mm*	60 mm*
Keypad	No	No	Yes
Mounting type	Mullion	Mullion	Surface mount, US/EU back box
Dimensions (H x W x D)	79.6 x 43 x 16.8 mm	152 x 43 x 25.4 mm	133 x 70 x 30 mm

*   Some environmental conditions, including metallic mounting surface, can significantly degrade read range and performance
** Commercial type numbers: 7412GV4, D9412GV4, B8512G, B9512G, B6512

Card readers – 125 kHz

Material description	Card reader, EM, mini mullion	Card reader, EM, mullion	Card reader, EM	Card reader, EM, vandal-resistant
Commercial type number (CTN)	ARD-AYK12	ARD-AYJ12	ARD-AYH12	ARD-AYQ12
Bosch controller compatibility	AMC2-4WCF, AEC, B/G-series**	AMC2-4WCF, AEC, B/G-series**	AMC2-4WCF, AEC, B/G-series**	AMC2-4WCF, AEC, B/G-series**
Software compatibility (Min. requirement)	APE, BIS-ACE, AEC	APE, BIS-ACE, AEC	APE, BIS-ACE, AEC	APE, BIS-ACE, AEC
Controller interface (Protocol)	Wiegand	Wiegand	Wiegand	Wiegand
Wiring connection	Pigtail	Pigtail	Pigtail	Pigtail
Read / Write ability	Read	Read	Read	Read
Reading format	EM4102	EM4102	EM4102	EM4102
Operating voltage	5 – 16 VDC	5 – 16 VDC	5 – 16 VDC	5 – 16 VDC
Degree of protection (IP)	IP65	IP65	IP65	IP65
Read range	80 mm*	100 mm*	120 mm*	55 mm*
Keypad	No	No	No	No
Mounting type	Mullion Surface mount	Mullion Surface mount	Mullion Surface mount US/EU back box	Mullion Surface mount US/EU back box
Dimensions (H x W x D)	80 x 40 x 13 mm	120 x 42 x 14 mm	110 x 75 x 15 mm	120 x 76 x 27 mm

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** Commercial type numbers: 7412GV4, D9412GV4, B8512G, B9512G, B6512

Card readers – 125 kHz

Material description	Card reader with keypad, EM	Card reader, keypad EM, vandal-resistant	Long range reader, EM
Commercial type number (CTN)	ARD-AYCF64	ARD-AYCE65B	ARD-AYZ12
Bosch controller compatibility	AMC2-4WCF, AEC, B/G-series**	AMC2-4WCF, AEC, B/G-series**	AMC2-4WCF, AEC, B/G-series**
Software compatibility (Min. requirement)	APE, BIS-ACE, AEC	APE, BIS-ACE, AEC	APE, BIS-ACE, AEC
Controller interface (Protocol)	Wiegand	Wiegand	Wiegand
Wiring connection	Pigtail	Pigtail	Pigtail
Read / Write ability	Read	Read	Read
Reading format	EM4102	EM4102	EM4102
Operating voltage	5 – 16 VDC	5 – 16 VDC	10 – 16 VDC
Degree of protection (IP)	IP65	IP68	IP54
Read range	80 mm*	40 mm*	600 mm*
Keypad	Yes	Yes	No
Mounting type	Mullion Surface mount US/EU back box	Mullion Surface mount	Surface mount
Dimensions (H x W x D)	120 x 76 x 21 mm	155 x 44 x 9 mm	300 x 300 x 25.4 mm

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** Commercial type numbers: 7412GV4, D9412GV4, B8512G, B9512G, B6512

Card readers – 13.56 MHz

Family name	Lectus duo 3000	Lectus duo 3000	Lectus duo 3000	Lectus duo 3000
Description	Card reader, MIFARE classic	Card reader with keypad, MIFARE classic	Card reader, MIFARE EV1	Card reader with keypad, MIFARE EV1
Commercial type number (CTN)	ARD-AYBS6260	ARD-AYBS6360	ARD-AYBS6280	ARD-AYBS6380
Bosch controller compatibility	AMC2-4WCF, AMC2-4R4CF	AMC2-4WCF, AMC2-4R4CF	AMC2-4WCF, AMC2-4R4CF	AMC2-4WCF, AMC2-4R4CF
Software compatibility (Min. requirement)	BIS-ACE (3.0), APE (3.3)	BIS-ACE (3.0), APE (3.3)	BIS-ACE (3.0), APE (3.3)	BIS-ACE (3.0), APE (3.3)
Controller interface (Protocol)	Wiegand, RS485 (OSDPv1)	Wiegand, RS485 (OSDPv1)	Wiegand, RS485 (OSDPv1)	Wiegand, RS485 (OSDPv1)
Wiring connection	Terminal strip	Terminal strip	Terminal strip	Terminal strip
Read / Write ability	Read	Read	Read	Read
Reading format	MIFARE classic ISO14443A CSN	MIFARE classic ISO14443A CSN	MIFARE classic, DESfire EV1 ISO14443A CSN	MIFARE classic, DESfire EV1 ISO14443A CSN
Operating voltage	8.5 – 16 VDC	8.5 – 16 VDC	8.5 – 16 VDC	8.5 – 16 VDC
Degree of protection (IP)	IP65	IP65	IP65	IP65
Read range	30 mm*	30 mm*	30 mm*	30 mm*
Keypad	No	Yes	No	Yes
Mounting type	Mullion Surface mount	Mullion Surface mount	Mullion Surface mount	Mullion Surface mount
Dimensions (H x W x D)	137 x 44 x 27.5 mm	137 x 44 x 27.5 mm	137 x 44 x 27.5 mm	137 x 44 x 27.5 mm

* Some environmental conditions, including metallic mounting surface, can significantly degrade read range and performance

Card readers – 13.56 MHz

Family name	Lectus secure 1000	Lectus secure 1000	Lectus secure 2000	Lectus secure 4000
Material description	Card reader, iCLASS, Wiegand	Card reader, OSDP	Card reader, OSDP	Handsfree card reader, iCLASS, Wiegand
Commercial type number (CTN)	ARD-SER10-WI	ARD-SER10-RO	ARD-SER15-RO	ARD-SER40-WI
Bosch controller compatibility	AMC2-4WCF, AEC, B/G-series**	AMC2-4R4CF	AMC2-4R4CF	AMC2-4WCF, AEC, B/G-series**
Software compatibility (Min. requirement)	APE, BIS-ACE, AEC	BIS-ACE (4.1), APE (3.3)	BIS-ACE (4.1), APE (3.3)	APE, BIS-ACE, AEC
Controller interface (Protocol)	Wiegand	RS485 (OSDPv2 encrypted)	RS485 (OSDPv2 encrypted)	Wiegand
Wiring connection	Pigtail	Terminal strip	Terminal strip	Pigtail
Read / Write ability	Read	Read	Read	Read
Reading format	iCLASS, iCLASS SE, Seos ISO14443A CSN	iCLASS, iCLASS SE, Seos ISO14443A CSN, MIFARE classic, DESFire EV1 (Bosch data record)	iCLASS, iCLASS SE, Seos ISO14443A CSN, MIFARE classic, DESFire EV1 (Bosch data record)	iCLASS, iCLASS SE, Seos ISO14443A CSN
Operating voltage	5 – 16 VDC	5 – 16 VDC	5 – 16 VDC	5 – 16 VDC
Degree of protection (IP)	IP55 (IP65 with gasket)	IP55 (IP65 with gasket)	IP55 (IP65 with gasket)	IP55 (IP65 with gasket)
Read range	38 – 76 mm*	38 – 76 mm*	13 – 76 mm*	38 – 114 mm*
Keypad	No	No	No	No
Mounting type	Mini Mullion Surface mount	Mullion Surface mount	Mullion Surface mount	US back box Surface mount
Dimensions (H x W x D)	103 x 48 x 23 mm	103 x 48 x 23 mm	153 x 48 x 23 mm	122 x 84 x 24 mm

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** Commercial type numbers: 7412GV4, D9412GV4, B8512G, B9512G, B6512

Card readers – 13.56 MHz

Family name	Lectus secure 4000	Lectus secure 5000	Lectus secure 5000	Lectus secure 9000
Material description	Card reader, OSDP	Card reader with keypad, iCLASS, Wiegand	Card reader with keypad, OSDP	Handsfree card reader, iCLASS, Wiegand
Commercial type number (CTN)	ARD-SER40-RO	ARD-SERK40-W1	ARD-SERK40-RO	ARD-SER90-WI
Bosch controller compatibility	AMC2-4R4CF	AMC2-4WCF, AEC, B/G-series**	AMC2-4R4CF	AMC2-4WCF, AEC, B/G-series**
Software compatibility (Min. requirement)	BIS-ACE (4.1), APE (3.3)	APE, BIS-ACE, AEC	BIS-ACE (4.1), APE (3.3)	APE, BIS-ACE, AEC
Controller interface (Protocol)	RS485 (OSDPv2 encrypted)	Wiegand	RS485 (OSDPv2 encrypted)	Wiegand
Wiring connection	Terminal strip	Pigtail	Terminal strip	Pigtail
Read / Write ability	Read	Read	Read	Read
Reading format	iCLASS, iCLASS SE, Seos ISO14443A CSN, MIFARE classic, DESFire EV1 (Bosch data record)	iCLASS, iCLASS SE, Seos ISO14443A CSN	iCLASS, iCLASS SE, Seos ISO14443A CSN, MIFARE classic, DESFire EV1 (Bosch data record)	iCLASS, iCLASS SE, Seos ISO14443A CSN
Operating voltage	5 – 16 VDC	5 – 16 VDC	5 – 16 VDC	12 – 24 VDC
Degree of protection (IP)	IP55 (IP65 with gasket)	IP55 (IP65 with gasket)	IP55 (IP65 with gasket)	IP65
Read range	38 – 114 mm*	38 – 127 mm*	38 – 127 mm*	178 – 336 mm*
Keypad	No	Yes	Yes	No
Mounting type	US back box Surface mount	US back box Surface mount	US back box Surface mount	Surface mount
Dimensions (H x W x D)	122 x 84 x 24 mm	122 x 85 X 28 mm	122 x 85 x 28 mm	333 x 333 x 39 mm

* Some environmental conditions, including metallic mounting surface, can significantly degrade read range and performance
** Commercial type numbers: 7412GV4, D9412GV4, B8512G, B9512G, B6512

Biometric fingerprint readers

Family name	BioEntry Plus			BioEntry W2
Material description	Fingerprint and card reader, MIFARE	Fingerprint and card reader, EM	Fingerprint and card reader, HIDprox	Fingerprint reader, OSDP, multiCLASS
Commercial type number (CTN)	ARD-FPBEPMF-OC	ARD-FPBEPPR-OC	ARD-FPBEPHP-OC	ARD-FPBEW2-IC
Bosch controller compatibility	AMC2-4WCF, AEC	AMC2-4WCF, AEC, B/G-series**	AMC2-4WCF, AEC, B/G-series**	AMC2-4WCF, AMC2-4R4CF
Software compatibility (Min. requirement)	APE , BIS-ACE	APE , BIS-ACE, AEC	APE , BIS-ACE, AEC	BIS-ACE (4.5)
Controller interface (Protocol)	Wiegand	Wiegand	Wiegand	Wiegand, RS485 (OSDPv2 encrypted)
Wiring connection	Terminal strip	Terminal strip	Terminal strip	Terminal strip, RJ45 (PoE)
Read / Write ability	Read	Read	Read	Read
Reading format	MIFARE classic, DESFire EV1 (Bosch data record)	EM4102	HID Prox	EM, HID Prox, MIFARE classic, DESFire EV1 (Bosch data record), HID Corporate-1000, iCLASS, iCLASS SE, Seos
Transmission frequency	13.56 MHz	125 kHz	125 kHz	125 kHz / 13.56 MHz
Operating voltage	12 VDC	12 VDC	12 VDC	12 VDC or PoE
Degree of protection (IP)	Indoor product	Indoor product	Indoor product	Indoor / outdoor product (IP67)
Read range	38 – 76 mm*	38 – 114 mm*	38 – 127 mm*	13 – 127 mm*
Keypad	No	No	No	No
Mounting type	Mullion Surface mount	Mullion Surface mount	Mullion Surface mount	Mullion Surface mount
Dimensions (H x W x D)	160 x 50 x 37 mm	160 x 50 x 37 mm	160 x 50 x 37 mm	172 x 50 x 43 mm

*   Some environmental conditions, including metallic mounting surface, can significantly degrade read range and performance
** Commercial type numbers: 7412GV4, D9412GV4, B8512G, B9512G, B6512

Biometric fingerprint readers

Family name	BioLite Net
Material description	Fingerprint and card reader with keypad
Commercial type number (CTN)	ARD-FPLN-OC

Bosch controller compatibility	AMC2-4WCF
Software compatibility (Min. requirement)	APE , BIS-ACE
Controller interface (Protocol)	Wiegand
Wiring connection	Pigtail
Read / Write ability	Read / Write
Reading format	MIFARE classic, DESFire EV1 (Bosch data record)
Transmission frequency	13.56 MHz
Operating voltage	12 VDC
Degree of protection (IP)	IP65
Read range	–
Keypad	Yes (with display)
Mounting type	Mullion Surface mount
Dimensions (H x W x D)	185 x 60 x 40 mm

Enrollment reader

Family name	Lectus enroll 5000
Material description	USB enrollment reader, MIFARE EV1
Commercial type number (CTN)	ARD-EDMCV002-USB

Bosch controller compatibility	–
Software compatibility (Min. requirement)	BIS-ACE (3.0), APE (3.3)
Controller interface (Protocol)	–
Wiring connection	USB
Read / Write ability	Read
Reading format	MIFARE classic, DESFire EV1 (Bosch data record)
Operating voltage	Powered by USB
Degree of protection (IP)	Indoor product
Read range	–
Keypad	No
Mounting type	Desktop device
Dimensions (H x W x D)	–

* Some environmental conditions, including metallic mounting surface, can significantly degrade read range and performance

AMC Controllers

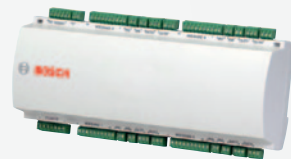| **Family name**	Access Modular Controller		
Material description	Door controller Wiegand with CF card	Door controller Wiegand extension	Door controller RS485 with CF card
Commercial type number (CTN)	APC-AMC2-4WCF	API-AMC2-4WE	APC-AMC2-4R4CF
Number of connetcable readers	4	4	8
Number of Inputs	8	8	8
Number of Outputs	8	8	8
Display	yes	no	yes
Internal storage (compact flash)	2GB	no	2GB
Reader Interface	Wiegand	Wiegand	RS485
Max reader cable length	110m per reader port	110m per reader port	1200m per Bus
Reader opreating voltage	12V DC	12V DC	10-30V DC
Reader monitoring	no	no	yes
Number of wires per reader	7 + 1	7 + 1	4 + 1
Number of connectable Reader extensions	1	–	–
Number of connectable I/O extensions	3	–	3

AMC I/O Extension boards

Family name	Access Modular Controller		
Material description	Extension board with 8-input 8-output	Extension board with 16-input 16-output	Extension board with 16-input
Commercial type number (CTN)	API-AMC2-8IOE	API-AMC2-16IOE	API-AMC2-16IE
Number of connetcable readers	–	–	–
Number of Inputs	8	16	16
Number of Outputs	8	16	
Display	no	no	no
Internal storage (compact flash)	no	no	no
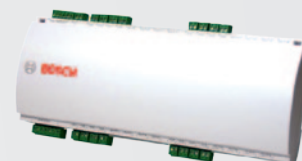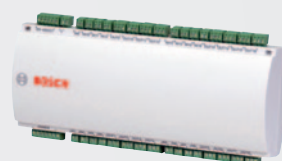
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