



**Catalogue
Access Control Line**

2022

Expertise

We are always at your side, with commitment and experience in the products' design and selection and with the installation, management and maintenance of the system.

Our areas of intervention



Residential



Industrial



Retail



Business

Since 1975 the company has worked at national and international level in the field of security by designing, producing and supplying intrusion prevention, fire prevention, video surveillance and access control systems.



TECHNOLOGICAL INNOVATION: our internal R&D team has created highly innovative products and such tradition has continued in today's new devices.



SYSTEM DESIGN: our System Design team supports you in the project design phase and can offer proposals for supply specifications, bills of quantities, technical reports and operating diagrams.



INTEGRATED SYSTEMS: our lines (intruder alarms, fire alarms, CCTV and access control) are intertwined and the ease of central management is guaranteed by a unified environment of supervision and configuration.



Our certifications: a path to excellence

www.elmospa.com/en/about-us/certifications

EL.MO. firmly believes in the quality of its products and in its working approach. It boasts specific certifications, awarded by distinguished external bodies.

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Please notice that product codes are indicated under commercial codes (please remind to use commercial codes for your orders).

For warranty and reparation conditions, please refer to Sales Conditions at the end of this catalogue.

Key to the symbols



Compatible with the MIFARE® 13.56 MHz standard



Compatible with the EM 125 kHz standard



Compatible with the SMR RF 125 kHz standard

MIFARE 13.56 MHz line

Readers for controllers

R2
LCMIX0000100
MIFARE



e-Pass line indoor/outdoor MIFARE 13.56 MHz proximity reader

Operation: RF only (PIN). **Functions:** built-in watch-dog. **Built-in interfaces:** 34 bit Wiegand output. **Controller:** PASSCONTROLLER, PASSGATE, ICON100AVR. **LED indicators:** 1 LED (red, green, blue). **Buzzer:** built-in. **Protection class:** IP65. **Dimensions:** W 51 × H 100 × D 20 mm. **Operative condition:** -20 - 70 °C, r.h.. 5 - 95%. **Power supply:** DC 9 - 24 V. **Max. power consumption:** 150 mA.

R2K
LCMIX0000200
MIFARE



e-Pass line indoor/outdoor MIFARE 13.56 MHz proximity reader with backlit 12-key keypad for typing passwords and PINs

Operation: RF only (PIN) / PIN only / RF (PIN) + password. **Functions:** built-in watch-dog. **Controller:** PASSCONTROLLER, PASSGATE, ICON100AVR. **Built-in interfaces:** 34 bit Wiegand output, 4 bit burst for pin. **Keypad:** 12 backlit keys. **LED indicators:** 1 LED (red, green, blue). **Buzzer:** built-in. **Protection class:** IP65. **Dimensions:** W 80 × H 120 × D 20 mm. **Weight:** 175 g. **Power supply:** DC 9 - 24 V. **Max. power consumption:** 150 mA.

Desk reader

RDESKMF
LCDSK0000300
MIFARE



Desk MIFARE 13.56 MHz proximity reader with USB interface

Built-in interfaces: USB, cable length 1.2 m. **Reading range:** 0 to 5 cm according to the badge type used, reading speed <200 ms. **Data format:** MIFARE 13.56 MHz cards. **LED indicators:** Two-colour LED (red and green). **Buzzer:** built-in. **Housing:** black ABS plastic case. **Dimensions:** W 80 × H 26 × D 110 mm. **Weight:** 160 g. **Power supply:** DC 5 V.

Special readers

RFICR
LCMFR0000400
MIFARE



Indoor proximity reader for "FERSERVIZI" and MIFARE 13.56 MHz contactless cards

Cards positioning: Front. **Output format:** 26 bit Wiegand, 34 bit Wiegand. **Wirings:** Terminal connections. **Operating indications:** 2 LED (red, green). **Housing:** ABS white plastic. **Protection class:** IP3X. **Dimensions:** W 82 × H 128 × D 31 mm. **Weight:** 106 g. **Operative condition:** +0 /+50 °C. **Power supply:** DC12V (from 1.5 to 26V). **Max. power consumption:** 100 mA.

RFICREXT
LCMFR0000500
MIFARE



Outdoor proximity reader for "FERSERVIZI" and MIFARE 13.56 MHz contactless cards

Cards positioning: Front. **Output format:** 26 bit Wiegand, 34 bit Wiegand. **Wirings:** Terminal connections. **Operating indications:** 2 LED (red, green). **Housing:** ABS white plastic. **Protection class:** IP65. **Dimensions:** W 122 × H 120 × D 55 mm. **Weight:** 230 g. **Operative condition:** +0 /+50 °C. **Power supply:** DC12V (from 1.5 to 26V). **Max. power consumption:** 100 mA.

Cards and tags

ISC80P
TTMFR0001300
MIFARE



Passive MIFARE (RF 13.56 MHz) proximity reading card

ISC80P25
TTMFR0001400
MIFARE



Passive MIFARE (RF 13.56 MHz) proximity reading card, 25 pcs.
Package: 25 pieces.

ISC80P50
TTMFR0001500
MIFARE



Passive MIFARE (RF 13.56 MHz) proximity reading card, 50 pcs.
Package: 50 pieces.

MIFARE 13.56 MHz line

ISK50

TTMFR0000700

MIFARE

Passive MIFARE proximity tag (RF 13.56 MHz)

ISK5025

TTMFR0000800

MIFARE

Passive MIFARE proximity tag (RF 13.56 MHz), 25 pcs.

Package: 25 pieces.

ISK5050

TTMFR0000900

MIFARE

Passive MIFARE proximity tag (RF 13.56 MHz), 50 pcs.

Package: 50 pieces.

EM 125 kHz line

Readers for controllers

R1
LCIPA0000600
EM



e-Pass line indoor/outdoor EM 125 kHz proximity reader

Operation: RF only (PIN). **Controller:** PASSCONTROLLER, PASSGATE, ICON100AVR, ITDC, IP100R, IP505R. **Functions:** 100 ms verification time, surge protection, watch-dog, anti-collision algorithm, self-diagnosis. **Built-in interfaces:** 26 bit Wiegand output. **LED indicators:** 1 LED (red, green, blue). **Protection class:** IP65. **Buzzer:** built-in. **Operative condition:** -20 - 70 °C, r.h.. 5 - 95%. **Dimensions:** W 51 × H 100 × D 20 mm. **Power supply:** DC 9 - 24 V. **Max. power consumption:** 150 mA.

R1S
LCIPA0000800
EM



e-Pass line indoor EM 125 kHz proximity reader

Operation: RF only (PIN). **Reading range:** from 5 to 10 cm according to used cards. **Controller:** PASSCONTROLLER, PASSGATE, ICON100AVR, ITDC, IP100R, IP505R. **Functions:** 100 ms verification time, surge protection, watch-dog, anti-collision algorithm, self-diagnosis. **Built-in interfaces:** 26 bit Wiegand output. **LED indicators:** 1 LED (red, green, blue). **Buzzer:** built-in. **Dimensions:** W 35 × H 100 × D 25 mm. **Weight:** 90 g. **Operative condition:** 0 - 65 °C, r.h. 5 - 95%. **Power supply:** DC 9 - 24 V. **Max. power consumption:** 150 mA.

R1K
LCIPA0000700
EM



e-Pass line indoor/outdoor EM 125 kHz proximity reader with backlit 12-key keypad for typing passwords and PINs

Operation: RF only (PIN) / PIN only / RF (PIN) + password. **Controller:** PASSCONTROLLER, PASSGATE, ICON100AVR, ITDC, IP100R, IP505R. **Built-in interfaces:** 26 bit Wiegand output, 4 bit burst for pin. **Functions:** 100 ms verification time, surge protection, watch-dog, anti-collision algorithm, self-diagnosis. **Keypad:** 12 backlit keys. **LED indicators:** 1 LED (red, green, blue). **Buzzer:** built-in. **Protection class:** IP65. **Dimensions:** W 80 × H 120 × D 20 mm. **Operative condition:** -20 - 70 °C, r.h.. 5 - 95%. **Power supply:** DC 9 - 24 V. **Max. power consumption:** 150 mA.

IP10
LCIPA0000200
EM



Indoor/outdoor EM 125 kHz proximity reader

Operation: RF only (PIN). **Reading range:** from 5 to 10 cm according to used cards. **Controller:** PASSCONTROLLER, PASSGATE, ICON100AVR, ITDC, ETRVARCO, IP100R, IP505R. **Built-in interfaces:** 26 bit Wiegand output. **LED indicators:** 1 LED (red and green) and internal buzzer. **Buzzer:** built-in. **Protection class:** IP66. **Dimensions:** W 46 × H 122 × D 23 mm. **Power supply:** 12 Vcc. **Max. power consumption:** 150 mA.

IPK101
LCIPA0000100
EM



UPON REQUEST

Indoor EM 125 kHz proximity reader with backlit 12-key keypad for typing passwords and PINs

Operation: RF only (PIN) / PIN only / RF (PIN) + password. **Reading range:** from 5 to 10 cm according to used cards. **Controller:** PASSCONTROLLER, PASSGATE, ICON100AVR, ITDC, IP100R, IP505R. **Keypad:** 12 backlit keys. **Built-in interfaces:** 26 bit Wiegand output, 8 bit burst for pin, RS-232 (TXT). **LED indicators:** 3 LEDs. **Buzzer:** built-in. **Dimensions:** W 87 × H 100 × D 31 mm. **Power supply:** 12 Vcc. **Max. power consumption:** 150 mA.

Desk readers

RDESKEM
LCDSK0000100
EM



Desk EM 125 kHz proximity reader with USB interface

Built-in interfaces: USB, cable length 1.2 m. **Reading range:** 0 to 5 cm according to the badge type used, reading speed <200 ms. **Data format:** EM 125 kHz cards. **LED indicators:** Two-colour LED (red and green). **Buzzer:** built-in. **Housing:** black ABS plastic case. **Dimensions:** W 80 × H 26 × D 110 mm. **Weight:** 160 g. **Power supply:** DC 5 V.

Stand-alone systems

IP100R
S1PA0000100

EM



UPON REQUEST

Stand-alone (EM 125 kHz) proximity reader with backlit 12-key keypad for typing passwords and PINs

Operation: RF only (PIN) / PIN only / RF (PIN) or PIN / RF (PIN) + password. **Reading range:** 10 cm. **Data format:** 26 bit Wiegand. **Zones:** 5 × DC 12 V / 200 mA max inputs (exit button, door magnetic contact, Aux#1, Aux#2, Aux#3). **Management:** stand-alone. **Outputs:** 2 × DC 12-18 V / 2 A max relay outputs, 1 × DC 5 V / 500 mA max sounder output, 1 × DC 5 V / 20 mA max TTL output. **Users:** up to 512 card owners (users/IDs), configurable by the user. **Keypad:** 12 backlit keys. **Built-in interfaces:** 26 bit Wiegand input. **LED indicators:** 3 LED (red, green, yellow). **Buzzer:** built-in. **Operative condition:** -35 - 65 °C, r.h. 10 - 90%. **Dimensions:** W 87 × H 100 × D 31 mm. **Weight:** 210 g. **Power supply:** DC 12 V. **Max. power consumption:** 200 mA. **Standards:** certified UL-294 indoor; FCC class A part 15; CE.

IP505R
SNIPA0000100

EM



UPON REQUEST

Stand-alone (EM 125 kHz) proximity reader with LCD and backlit 12-key keypad for typing passwords and PINs

Operation: RF only (PIN) / RF (PIN) + password. **Reading range:** from 5 to 10 cm according to used cards. **Management:** stand-alone or with network configuration of readers over RS-232 (max 1 device), RS-485 (max 32 devices) and via TCP/IP with ERSCONV optional converter. **Keypad:** 16 backlit keys. **Users:** from 10,000 to 50,000 users, from 50,000 to 10,000 events buffer. **Zones:** 4 × DC 12 V / 20 mA NA inputs. **Outputs:** 4 outputs (2 × DC 12 V / 2 A max relays, 2 × DC 5 V / 20 mA TTL outputs). **Functions:** schedule management and attendance monitoring, definition of 10 weekly time bands with 5 daily intervals and 10 holidays (up to 32 days per holiday). **LED indicators:** 3 LEDs. **Buzzer:** built-in. **Dimensions:** W 150 × H 120 × D 40 mm. **Power supply:** DC 12 V. **Max. power consumption:** 150 mA.

Cards and tags

IPC80P
TTIPA0000100

EM

Passive proximity reading card (EM 125kHz), reading distance up to 10 cm. Surface customizable upon request

IPC80P25
TTIPA0000200

EM

Standard proximity reading card (EM 125 kHz), 25 pcs.
Package: 25 pieces.

IPC80P50
TTIPA0000300

EM

Standard proximity reading card (EM 125 kHz), 50 pcs.
Package: 50 pieces.

IPK50
TTIPA0000700

EM

Passive proximity tag (EM 125 kHz), up to 5 cm reading distance
Material: ABS, white, equipped with hole for key ring. Dimensions: W 46 × D 28 × H 6 mm.

IPK5025
TTIPA0001000

EM

Passive proximity tag (EM 125 kHz), 25 pcs.
Package: 25 pieces.

IPK5050
TTIPA0001100

EM

Passive proximity tag (EM 125 kHz), 50 pcs.
Package: 50 pieces.

IPTAG
TTIPA0001200

EM

Adhesive passive proximity tag (EM 125 kHz)

IPTAG25
TTIPA0001300

EM

Adhesive passive proximity tag (EM 125 kHz), 25 pcs.
Package: 25 pieces.

IPTAG50
TTIPA0001400

EM

Adhesive passive proximity tag (EM 125 kHz), 50 pcs.
Package: 50 pieces.

SMR RF 125 kHz line

Readers for controllers

RF10

LCSMR0000100

SMR



UPON REQUEST

Indoor/outdoor SMR (RF 125 kHz) line proximity reader

Operation: RF only (PIN). **Reading range:** from 5 to 10 cm according to used cards. **Controller:** PASSCONTROLLER, PASSGATE, ICON100AVR, ITDC, ETRVARCO. **LED indicators:** 2 LED indicators (red and green). **Built-in interfaces:** 26 bit Wiegand output. **Protection class:** IP65. **Buzzer:** built-in. **Dimensions:** W 46 × H 122 × D 23 mm. **Operative condition:** -35 - 65 °C; r.h. 10 - 90%. **Weight:** 160 g. **Power supply:** 12 Vcc. **Max. power consumption:** 150 mA.

RFK101

LCSMR0000200

SMR



UPON REQUEST

Indoor SMR (RF 125 kHz) line proximity reader with backlit 12-key keypad for typing passwords and PINs

Operation: RF only (PIN) / PIN only / RF (PIN) + password. **Reading range:** from 5 to 10 cm according to used cards. **Controller:** PASSCONTROLLER, PASSGATE, ICON100AVR, ITDC. **Built-in interfaces:** 26 bit Wiegand output, 8 bit burst for pin. **Keypad:** 12 backlit keys. **LED indicators:** 3 LED (red, green, yellow). **Buzzer:** built-in. **Operative condition:** -35 - 65 °C, r.h. 10 - 90% non condensing. **Dimensions:** W 87 × H 100 × D 31 mm. **Weight:** 280 g. **Power supply:** 12 Vcc. **Max. power consumption:** 150 mA.

Cards and tags

IDC80

TTSMR0000400

SMR

Proximity reading magnetic stripe card (RF 125kHz). Surface customizable upon request

IDC8025

TTSMR0000500

SMR

Proximity reading magnetic stripe card (RF 125 kHz), 25 pcs.
Package: 25 pieces.

IDC8050

TTSMR0000600

SMR

Proximity reading magnetic stripe card (RF 125 kHz), 50 pcs.
Package: 50 pieces.

IMC125

TTSMR0001300

SMR

SMR (RF 125 kHz) proximity minitag

IMC12525

TTSMR0001400

SMR

SMR (RF 125 kHz) proximity minitag, 25 pcs.
Package: 25 pieces.

IMC12550

TTSMR0001500

SMR

SMR (RF 125 kHz) proximity minitag, 50 pcs.
Package: 50 pieces.

IDK50

TTSMR0001000

SMR

Passive proximity tag (RF 125 kHz)

Dimensions: W 46 × D 28 × H 6 mm. **Material:** ABS, white, equipped with hole for key ring.

IDK5025

TTSMR0001100

SMR

Passive proximity tag (RF 125 kHz), 25 pcs.
Package: 25 pieces.

IDK5050

TTSMR0001200

SMR

Passive proximity tag (RF 125 kHz), 50 pcs.
Package: 50 pieces.

Long-range readers for vehicle access control

RF 2.4 - 2.5 GHz

NEORF245
LR2450000400



UPON REQUEST

Indoor/outdoor proximity (2.4-2.5 GHz ISM) card reader for vehicle access control

Reading range: up to 15 m using the IDA245 badge. **Built-in interfaces:** 26 bit Wiegand output, RS-232. **LED indicators:** LED (green). **Buzzer:** built-in. **Protection class:** IP66, IK08. **Dimensions:** W 180 × H 180 × D 40 mm. **Weight:** 1500 g. **Power supply:** 12 Vcc. **Max. power consumption:** 50 mA.

IDA245
LRACC0100200



Active proximity (2.4-2.5 GHz ISM) card, 3 V Lithium replaceable battery included; up to 15 m configurable range

Dimensions: W 54 × H 86 × D 4.5 mm. **Material:** PVC.

CCIDA150
LRACC0200200



IDA245 card holder

RF 840 - 960 MHz

RF900I
LR9000000100



UPON REQUEST

NEW

Indoor/outdoor proximity (840 - 960 MHz FHSS) card reader for vehicle access control

Reading range: up to 15 m according to used tags. **Built-in interfaces:** 26 bit Wiegand output (standard), 34 bit Wiegand output, RS-232, RS-485. **Protection class:** IP65. **Housing:** ABS plastic case. **Dimensions:** W 255 × H 255 × D 55 mm. **Weight:** 1550 g. **Power supply:** 12 Vcc. **Max. power consumption:** 50 mA.

IDT900C
LRACC0100300

UPON REQUEST

NEW

Passive proximity card (840 - 960 MHz)

Material: PVC. **Dimensions:** W 54 × H 86 × D 0.8 mm.

IDT900C25
LRACC0100400

UPON REQUEST

NEW

Passive proximity card (840 - 960 MHz), 25 pcs.

Package: 25 pieces.

IDT900C50
LRACC0100500

UPON REQUEST

NEW

Passive proximity card (840 - 960 MHz), 50 pcs.

Package: 50 pieces.

IDT900T
LRACC0300100

UPON REQUEST

NEW

Adhesive passive proximity tag (840 - 960 MHz)

Material: paper. **Dimensions:** W 120 × H 25 mm.

IDT900T25
LRACC0300200

UPON REQUEST

NEW

Adhesive passive proximity tag (840 - 960 MHz), 25 pcs.

Package: 25 pieces.

IDT900T50
LRACC0300300

UPON REQUEST

NEW

Adhesive passive proximity tag (840 - 960 MHz), 50 pcs.

Package: 50 pieces.

Gate controller

PASSCT01
COEPA0000200



SOON AVAILABLE

DIN rail PASSCONTROLLER controller for 1 gate, expandable up to 32, powered via PoE

Compatibility: all control access lines compatible with PASSMANAGER. **Zones:** 5 programmable inputs (door status, exit button, 1 free input, 1 arming request, 1 tamper). 2 inputs for external readers. **Outputs:** 7 outputs (2 × DC 30 V / 1 A max relays, 5 × 30 mA max open collector outputs). **Functions:** complete gate control, expandable with max 31 PASSGATE modules over TERABUS line. **User interface:** system configuration web interface. **Housing:** DIN rail housing, 12 DIN modules. **Management software:** PASSMANAGER. **Working temperature:** -10 - 55 °C. **Dimensions:** W 213 × H 91 × D 62 mm. **Power supply:** PoE / DC 12 V.

PASSCT02
COEPA0000300



SOON AVAILABLE

DIN rail PASSCONTROLLER controller for 1 gate, expandable up to 32

Compatibility: all control access lines compatible with PASSMANAGER. **Zones:** 5 programmable inputs (door status, exit button, 1 free input, 1 arming request, 1 tamper). 2 inputs for external readers. **Outputs:** 7 outputs (2 × DC 30 V / 1 A max relays, 5 × 30 mA max open collector outputs). **Functions:** complete gate control, expandable with max 31 PASSGATE modules over TERABUS line. **User interface:** system configuration web interface. **Housing:** DIN rail housing, 12 DIN modules. **Management software:** PASSMANAGER. **Working temperature:** -10 - 55 °C. **Dimensions:** W 213 × H 91 × D 62 mm. **Power supply:** 12 Vcc.

PASSGATE
COEPA0000100

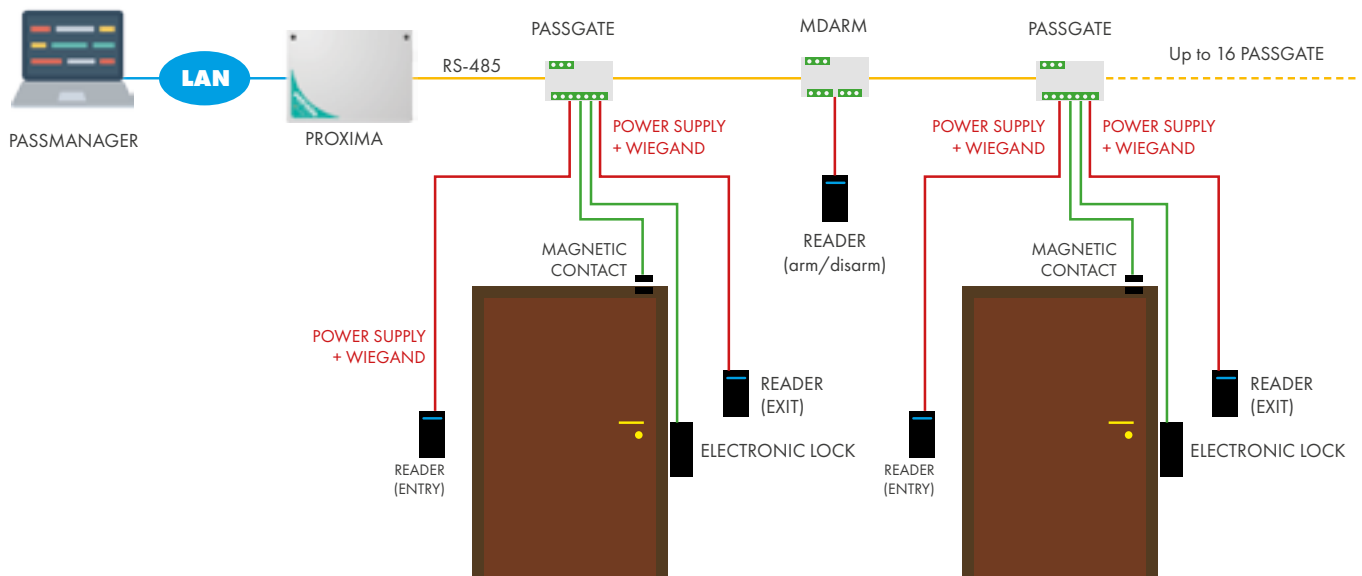


NEW

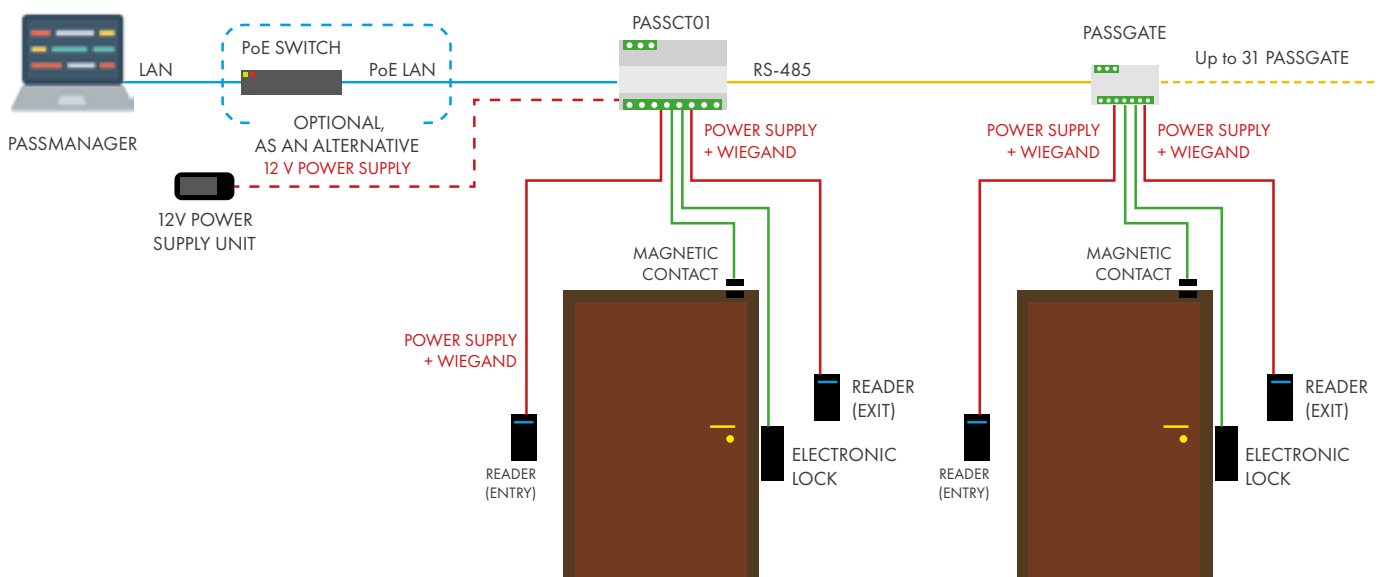
Single-door access control passive interface module (1 reader IN / 1 reader OUT)

Compatibility: passive control interface controlled by PASSCONTROLLER controllers and by PROXIMA series intrusion detection control units. **Zones:** 5 programmable inputs (door status, exit button, 1 free input, 1 arming request, 1 tamper). 2 inputs for external readers. **Outputs:** 7 outputs (2 × DC 30 V / 1 A max relays, 5 × 30 mA max open collector outputs). **O.C. output maximum current:** 30 mA. **Working temperature:** -10 - 55 °C. **Power supply:** 12 V. **Weight:** 107 g. **Dimensions:** W 129 × H 80 × D 20 mm. **Relative humidity:** max 93%. **Power supply:** 12 Vcc. **Idle mode:** 10 mA. **Max. power consumption:** 26 mA.

Management of up to 16 gates with PASSGATE and PROXIMA series control unit



Management of up to 32 gates with PASSCONTROLLER



ICON100AVR
COICO0000300



Single-door Access Control Panel, (1 reader IN / 1 reader OUT). PassManager and STANDARD software required

Compatible lines: ETR, TITANIAPLUS and PROXIMA for EL.MO. intrusion detection systems. **Zones:** 5 NO inputs (door status, exit button, 2 free inputs, 1 tamper). 2 inputs for external readers (26bit Wiegand). **Outputs:** 4 outputs (2 relay outputs 2A max, 2 TTL 5Vdc 20mA). **Functions:** gate control, sensitive access monitoring, data and system configuration protected in case of power outage. **Management:** up to 16 controllers connectable on serial bus of ETR and TITANIAPLUS series panels to integrate intrusion detection and access control functions. Management: Stand-Alone and Network configuration via RS232 (Max 1 device) / RS422 (32 devices max), and via TCP/IP (LAN Converter ILAN422 required). **Memorization:** from 10,000 up to 50,000 users, from 50,000 to 10,000 events storing in flash memory. **Time schedules:** definition of 10 weekly time bands with 5 daily intervals and 10 holidays (up to 32 days per holiday). **Relative humidity:** 90% max. **User interface:** the optional ICON100KBD LCD and keypad module can be connected for stand-alone and manual programming operations. **Housing:** optional C10SW housing available. **Management software:** PASSMANAGER or STANDARD. **Working temperature:** 0 - 65 °C. **Dimensions:** W 137 × H 137 × D 19 mm. **Weight:** 200 g. **Power supply:** 12Vcc forniti dalla centrale o da box remoto. **Max. power consumption:** 200 mA.

ICON100KBD
COACC0000300



ICON100/ITDC keypad and display kit

ITDC

COITD0000200



UPON REQUEST

Board controller, 2-4 gates, 20,000 users, manages IP and RF readers

3rd and 4th gate management: requires additional EIO88 board for controlling gates 3 and 4. **Memorization:** from 1,000 to 50,000 users, from 29,500 to 3,000 events buffer. **Management:** stand-alone or with network configuration of readers over RS-232 (max 1 device), RS-485 (max 32 devices) and via TCP/IP with TCPIP-MOD (COACC0000400) optional internal module or ILAN422 optional converter. **Functions:** gate control, sensitive access monitoring, data and system configuration protected in case of power outage. **Compatible lines:** ETR, TITANIAPLUS and PROXIMA for EL.MO. intrusion detection systems. **Zones:** 7 NO inputs (2 × door status, 2 × exit button, 3 × free inputs), 7 outputs (4 × DC 12 V / 2 A max relays, 3 × DC 5 V / 20 mA TTLs) and 4 inputs for external readers (26 bit Wiegand). **User interface:** the optional ICON100KBD LCD and keypad module can be connected for stand-alone and manual programming operations. **Management software:** PASS-MANAGER or STANDARD. **Time schedules:** definition of 15 weekly time bands with 5 daily intervals and 10 holidays (up to 32 days per holiday). **Housing:** optional C10RS housing available. **LED indicators:** 21 LEDs and built-in buzzer. **Dimensions:** W 145 × H 185 × D 18 mm. **Weight:** 220 g. **Working temperature:** 0 - 65 °C. **Relative humidity:** 90% max. **Power supply:** 12Vcc forniti dalla centrale o da box remoto. **Max. power consumption:** 500 mA.

EIO88

COACC0000100



Input/output expansion board for ITDC controllers

Zones: 8 inputs. **Outputs:** 8 × DC 12 V / 2 A max relay outputs for control of doors 3 and 4 of ITDC controllers. **Dimensions:** W 90 × H 136 mm.

TCPIPMOD

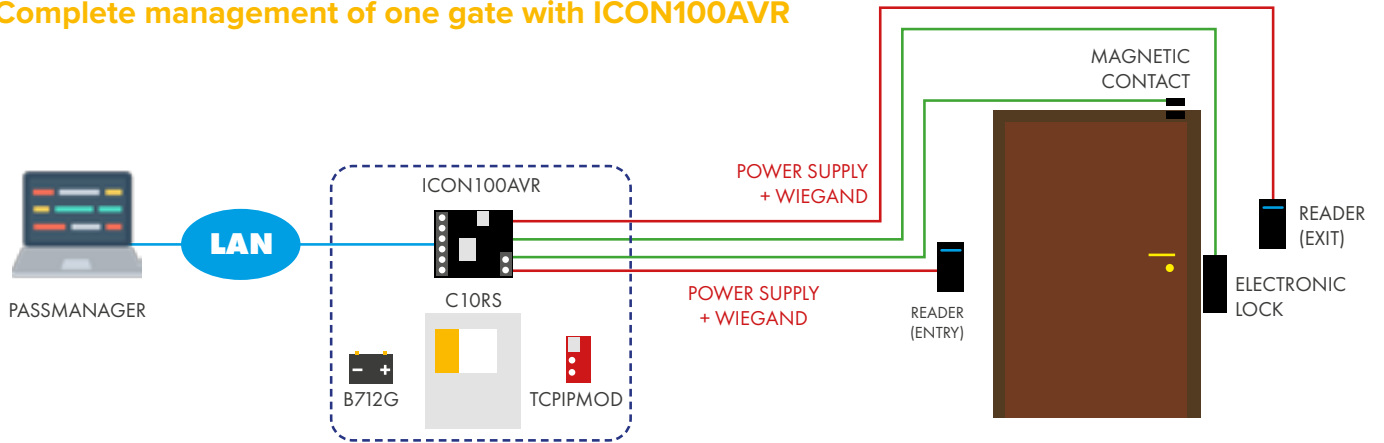
COACC0000400



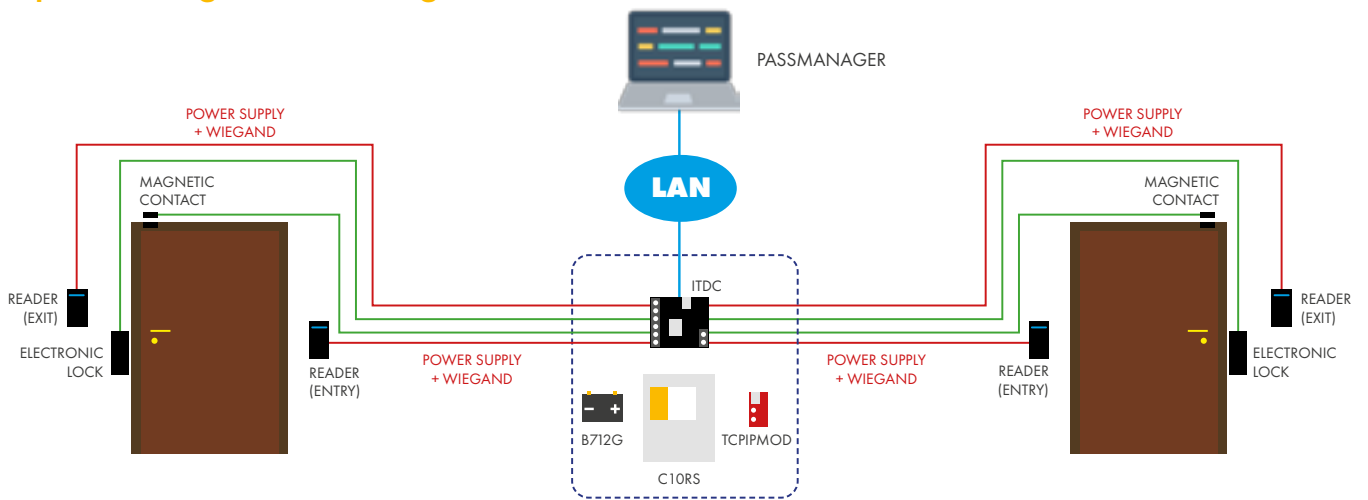
TCP-IP module for ITDC and ICON100AVR controllers

Dimensions: W 30 × H 50 mm.

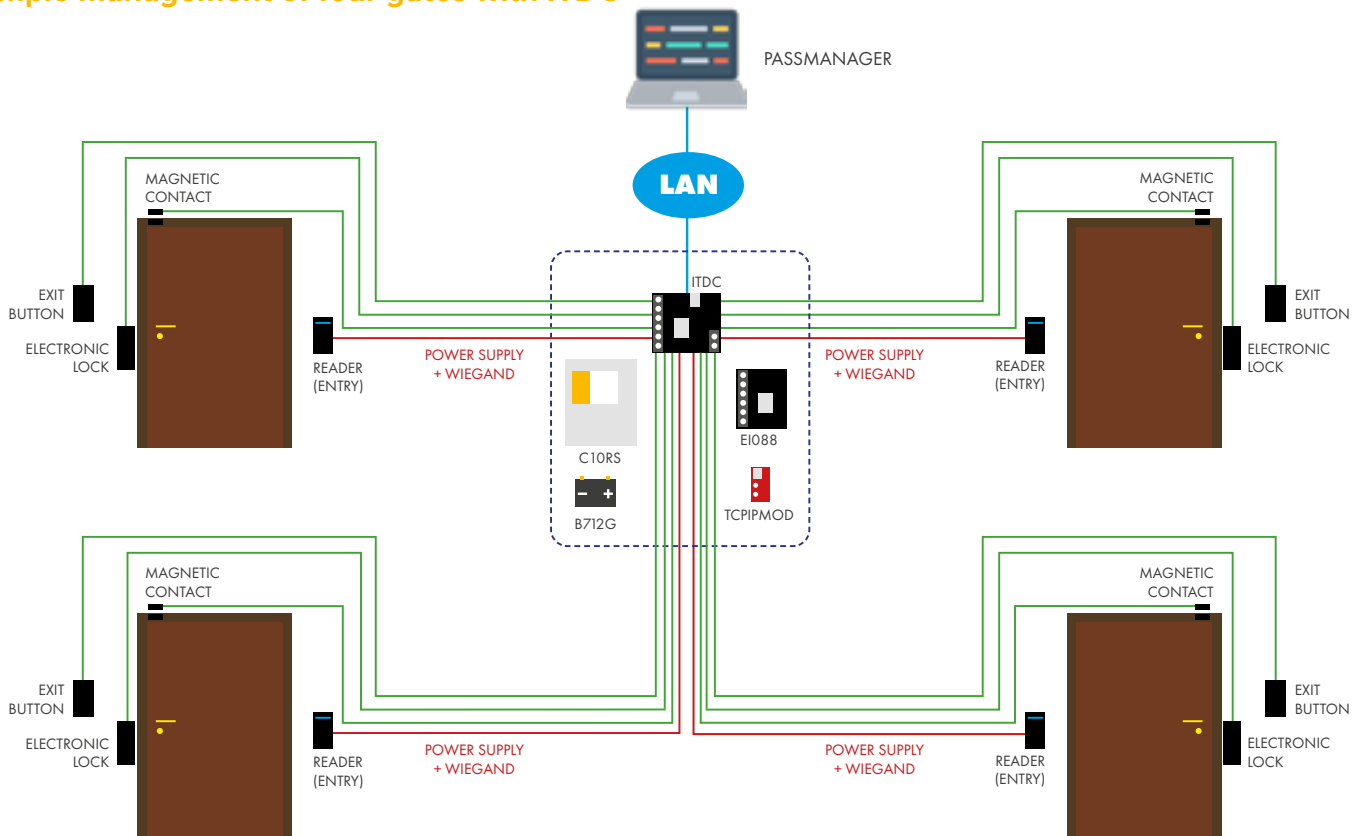
Complete management of one gate with ICON100AVR



Complete management of two gates with ITDC



Simple management of four gates with ITDC



Accessories and services

Power supply groups

C10RS
C10RSGAGRA0000900



Power supply for ICON100AVR and ITDC controllers and accessories

Outputs: relay outputs for fault, battery anomaly and mains failure. **Indications:** power status LED, fault LED. **Supplied current:** max 3 A. **Connectable battery:** up to 18 Ah. **Dimensions:** W 260 × H 305 × D 125 mm. **Weight:** 3.20 kg. **Current draw:** 0.51 A with 3 A load. **Standards:** compliant with EN50131-6 and EN50131-1 grade 2, environmental class II.

B712G
BTBAT0100200
e-Vision



7 Ah / 12 V AGM e-Vision battery

Dimensions: W 151 × H 94 × D 65 mm. **Weight:** 2.12 kg (packed product).

Interconnection

CAPT
SAACC0000300



Cable for direct ICON100AVR controller programming

ERSCONV
SAACC0000800



NEW

TCP/IP RS-232/485/422 converter. Serial to LAN converter for the integration of an access control system on an existing LAN network

Functions: watch-dog. **Zones:** Ethernet 10/100BASE-T/TX (half/full duplex). **Outputs:** choice between RS-232/485/422 serial lines. **Dimensions:** W 107 × H 115 × D 28 mm. **Weight:** 315 g. **Maximum operating voltage:** 24.0 V. **Minimum power supply:** 9.0 V. **Max. power consumption:** 300 mA.

URSCONV
SAACC0000700



NEW

USB RS-232/485/422 converter.

Functions: transmission speed from 921.6 to 300 kbps, transmission distance 1200 m (towards RS-485/422 at 9600 bps) or 5 m (towards USB or RS-232). **Zones:** USB. **Outputs:** choice between RS-232/485/422 serial lines.

SF485
ACCIV0001400



SSF protection filter for RS-485/422 serial lines. Protects up to 3 serial lines at the same time

Outputs: 3 DC12V outputs for power supply distribution. **Power supply:** 12 Vcc. **Weight:** 120 g (packed product).

Gate control accessories

S10S
PPCMACI00300



Cylindrical flush-mount magnetic contact. NO/NC switch Reed contact (10 pcs.)

Material: Brass. **Installation:** On aluminium and wooden surfaces (iron is not suitable). **Closing distances:** 12 mm on aluminium, 10 mm on wood. **Dimensions:** head diameter 10 × body diameter 7.5 × total length 26.5 mm. **Connections:** 4 wires. **Protection class:** IP65. **Package:** Supplied in 10-pcs pack only.

K107S
PPCMACV01700



UTKC5025 - Long-range surface-mount magnetic contact with NO/NC relay (2 pcs.)

Contact type: With NO/NC switch contact. **Material:** High-resistance die-cast aluminium. **Installation:** On to iron doors, fixing screws equipped with caps for protection against removal. **Closing distances:** 30 mm on non-iron), 22 mm iron. **Dimensions:** W 80 × H 18 × D 18 mm (reed contact and magnet). **Connections:** 4 wires. **Package:** Supplied in 2-pcs pack only.

K110
PPCMACV02300



UTKCHS47PM - Long-range surface-mount magnetic contact with magnetic protection function

Contact type: NC contact with closed door. **Material:** High-resistance die-cast aluminium. **Installation:** On to iron and non-iron window fixtures, fixing screws equipped with caps for protection against removal. **Closing distances:** 5 - 25 mm, 3 - 20 mm (on ferromagnetic surfaces). **Dimensions:** W 74 × H 18 × D 18 mm (reed contact and magnet). **Connections:** Terminal connections. **Certification:** IMQ-Security Systems EN 50131-2-6 grade 3, environmental class II.

EBT01
LCEBT0000100



Contactless wall-mount exit button

Reading range: adjustable from 5 to 20 cm. **Operation:** contactless with 0-30 s adjustable delay. **Programming:** via trimmer. **On-board outputs:** 1 NC/NO/COM output. **LED indicators:** 1 LED (green and blue). **Housing:** ABS plastic case. **Dimensions:** W 70 × H 115 × D 14 mm. **Weight:** 100 g. **Protection class:** IP68. **Operative condition:** -20 - 55 °C. **Power supply:** 12 Vcc.

Arm/disarm modules for EL.MO. intrusion detection systems

MDARM
OCMIN0100100



Arm/disarm module for RS-485 serial line, to be used with a proximity card reader

Communication interface: Wiegand 26 or 34 bit (towards the reader), ULTRABUS (towards the control unit). **O.C. output maximum current:** 30 mA. **Dimensions:** W 129 × H 80 × D 20 mm. **Weight:** 103 g. **Power supply:** 12 V. **Working temperature:** -10 ÷ +55 °C. **Idle mode:** 8.0 mA. **Maximum:** 14 mA. **Relative humidity:** max 93%.

Printing services

PRINTIM
SGIGR0000100

Design of the graphic layout for the customization of white cards (for each group of printed cards)

PRINTCA
SGSPG0000100

Graphic layout printing (same text and images on all cards, price per card)

PRINTMA
SGSPG0000200

Additional consecutive numeric code printing on each card (price per card)

PRINTMNM
SGIGR0000200

Additional name printing on each card (price per card)

PRINTMFT
SGIGR0000300

Additional photo printing on each card (price per card)

Software

PassManager



PassManager

PassManager is EL.MO's internally developed professional software for the management of access control systems. It allows to integrate and to manage ICON100AVR and ITDC controllers and their proximity readers over TCP/IP or serial lines. Thanks to its ability to import data from existing databases (like those used by the STANDARD software) it can be efficiently integrated in existing systems, reducing their complexity and their management costs.

One of PassManager's strong points is its easy to use interface which is designed to allow even inexperienced users to successfully interact with the system and greatly simplifies management and operativity.

PassManager's scalability and flexibility are made evident by its ability to create server-client structures if needed. It is possible to create several clients that all refer to a single server, letting several users operate inside the same system.

- Structure: client + server. Unlimited clients with additional licences.
- Hardware compatibility: PASSCONTROLLER, PASSGATE, ICON100AVR, ITDC, IP505R.
- O.S. compatibility: Windows 10 (64 bit and 32 bit).
- Report features: event/alarm (.pdf format).
- Access control features: duress and anti-passback modes
- User database: RDMS PostgreSQL 9.3, can import databases from STANDARD and DUAL PRO
- Alarm management: alarm notification, event status.
- Calendar management: 15 × 100 (ITDC).
- Max number of users: unlimited.

PMANAGER01

SASCA0100100

PassManager licence for an unlimited number of gates and unlimited users, 1 client

PMANAGER02

SASCA0100200

PassManager licence for 64 gates and unlimited users, 1 client

PMANAGER03

SASCA0100300

PassManager licence for 25 gates and unlimited users, 1 client

PMANAGER04

SASCA0100400

PassManager licence for 10 gates and unlimited users, 1 client

PMANAGERLC

SASCA0100500

PassManager licence for 1 additional client

Standard



Management software for access control systems with biometric readers

Two versions available on request: STANDARDSERVER and STANDARDSERVER1000.

For more information and for prices, please send your inquiries to international@elmospa.com

Sales conditions

1) SCOPE

- 1.1. The sale of products by EL.MO. is governed by Italian law and in particular by the provisions of these general conditions of sale (hereinafter also referred to as the Conditions), as well as by the provisions on sales pursuant to Articles 1470 et seq. of the Italian Civil Code.
- 1.2. Signing these Conditions by the Buyer entails the express waiver by the latter of its own conditions, even where these are referred to in the contractual documentation and/or invoices.

2) PRICES

- 2.1. The prices are those shown in the price list in force at the time of delivery of the merchandise and ex works cash payments will be considered. Prices do not include VAT, which is charged to the Buyer.
- 2.2. EL.MO. reserves the right to change the price list at any time without prior notice to customers.

3) DELIVERY

- 3.1. EL.MO. does not accept any liability for the delivery date which, where specified, is merely an indicative. If the date of delivery of the goods is postponed at the request of the Buyer, the latter hereby authorises EL.MO. to issue an invoice in advance, the amount of which shall be immediately paid by the Buyer.
- 3.2. The goods are intended to be sold "ex works", therefore they travel at the Buyer's risk, even if the shipment is carried out by EL.MO. through trusted or agreed carriers and/or forwarding agents. Delivery is deemed to be executed when the goods are taken charge of by the carrier and/or forwarding agent. Any loss or damage to the goods not attributable to EL.MO. shall under no circumstances give rise to compensation for damages by EL.MO.

4) COMPLAINTS

- 4.1. Any complaints shall be received in writing within eight days of receipt of the products; complaints for breakages and/or shortages shall be raised with the carrier at the time of delivery, activating, where applicable, carrier liability.
- 4.2. No complaint shall give the right to suspension of payments for any reason whatsoever, which shall be made in full on the part of the price relating to the undisputed products.

5) CONDITIONS OF PAYMENT

- 5.1. The place of payment is always agreed to be the registered office of EL.MO., even if payment is agreed by draft, cash order or other automatic debits. Unless otherwise agreed in writing, payments shall be in cash upon delivery of the goods. For the first delivery, payment by "cash on delivery" is mandatory.
- 5.2. In any case, on any delayed payment, arrears interest shall be due to EL.MO. to the extent of the official discount rate, increased by three points, in force at the time payment was due, without prejudice to any other right of EL.MO.
- 5.3. Payment of the price on the agreed due dates may not be suspended or delayed by the Buyer for any reason whatsoever. The Buyer may not raise objections in order to avoid or delay the payment due. Any claims in relation to the supply shall be asserted in separate proceedings.
- 5.4. In the event of termination of the contract for reasons attributable to the Buyer, the instalments of the price already collected shall remain acquired by EL.MO. as compensation, without prejudice to any other claim for greater damages and expenses.
- 5.5. Insolvency on the part of the buyer shall authorise EL.MO. to change the terms of payment agreed without prior notice, in addition to immediate suspension of supplies in progress until the outstanding payments are settled.

6) APPLICATION OF ACCELERATION CLAUSE

- 6.1. Failure to pay even only one instalment of the price shall lead to application of acceleration the clause the forfeiture for the Buyer.

7) CHARACTERISTIC CONSTRUCTION DATA

- 7.1. The technical data, even if contained in the catalogues, is always provided as an indication and is not binding. EL.MO. reserves the right to make any changes in the construction of its products at any time without the Buyer being able to raise any objections of any kind.
- 7.2. EL.MO. is not obliged to make any changes to products already manufactured. Any discrepancies between the data provided and the characteristics of the goods sold shall not involve any liability for EL.MO. and the Buyer shall not have the right to revoke the order or request

termination of the contract, reduce the price or claim damages for such discrepancies.

- 7.3. In accordance with the law, EL.MO. reserves all rights on all technical drawings or documents, which may not be copied, reproduced or communicated to third parties without written permission.

8) THIRD PARTY LIABILITY

- 8.1. By issuing the order, the buyer accepts liability for compliance with legal and safety regulations relating to the use of the products supplied.
- 8.2. Under no circumstances, except in cases of proven wilful misconduct or gross negligence, can EL.MO. be held liable, even indirectly, for lack of or inadequate functioning of the products and/or consequential damages.
- 8.3. While guaranteeing the "integrity" of its product, EL.MO. shall not in any case be liable for any disputes between the end user and intermediate commercial units.
- 8.4. The items offered and/or indicated in the various commercial documents (price lists, catalogues, website, portal, etc.) are intended specifically for the use for which they have been certified, which is indicated in the technical documentation available for each product. Any other use is not authorised and in this case the functionality of the product itself is not guaranteed.
- 8.5. EL.MO. is not in any case responsible for the compatibility of the solutions proposed with other systems, with which its products must interact and/or cooperate. Verification of compatibility is the exclusive responsibility of the installer based on the technical specifications of the products. Nevertheless, for those requiring them, EL.MO. can provide external technical support services at the conditions indicated in the chapter "EXTERNAL SUPPORT SERVICES".
- 8.6. The products use components for which the original manufacturer expresses a percentage defect rate which, however small, nevertheless affects the functionality of the equipment. The buyer is therefore requested to take all precautions in terms of control procedures and system implementation in order to identify any product inefficiencies in a timely manner. The buyer is invited to adapt the level of performance provided by the system with the actual risk situation (assessing, inter alia, the possibility that the system may be operating in degraded mode due to faults or other situations arising from atmospheric agents, electrical discharges from the electricity or telephone network, electrical faults, material defects).
- 8.7. The design, installation and maintenance of systems using the products included in the price lists are reserved for personnel in possession of the requirements and knowledge necessary to ensure their operation.
- 8.8. EL.MO. shall not responsible for design errors made by third parties, including installers, even if such errors may be the result of indications provided by product sales personnel.
- 8.9. The products must be installed in compliance with current accident prevention legislation. The internal parts of certain equipment are connected to the power grid and therefore there is a risk of electrocution when maintenance work is performed inside without first disconnecting the primary power supply. Certain products include batteries, rechargeable or otherwise, as an emergency backup power supply. If connected incorrectly, they may cause damage to the product or property and may endanger the operator (explosion and fire).
- 8.10. The sale of EL.MO. products on-line is possible only after written communication from the company for each item requested. The sale of EL.MO. products on-line is possible ONLY and EXCLUSIVELY in the reserved area, accessible only to registered users. EL.MO. price lists, on the other hand, can be public and therefore accessible to every web user. Buyers who, having expressly communicated their intention to EL.MO., advertise the product for e-commerce resale, are solely responsible for the correct information concerning the product characteristics, its usability only by professional users and the limits of validity of the warranty, also in terms of warranty period, as described in the following paragraph. In advertising the products, also online, should the buyer fail to inform third parties of the contents of these "general conditions of sale", regarding "construction data, characteristics", "third party liability" and "product warranty", EL.MO. shall be exempt from any liability whatsoever for damages directly and indirectly related to the sale concluded.
- 8.11. The buyer also undertakes to acquire from the third party, possibly its purchaser, consent with regard to these "general conditions of sale", duly binding the latter to the same provisions. The buyer expressly

declares, moreover, to exonerate EL.MO. from any liability for direct and indirect damages caused to the buyer itself and/or to third parties deriving from the delayed delivery of the material and execution of the system using these components, from the lack of and incorrect functioning of the systems implemented and for the non-availability of the same, for the entire period necessary for the repair and/or replacement of the components.

- 8.12. EL.MO. shall not be required to pay indemnification or compensation for damages, of any kind, caused to persons, property or anything else, which may occur during the use of products supplied. Moreover, EL.MO. shall not accept any liability for damage caused by these products if they are installed in premises that have subsequently become unsuitable due to changes made by the buyer and/or user.

9) PRODUCT WARRANTY

- 9.1. EL.MO. provides 30 months (60 months where indicated) warranty on its products for defects of components provided that the equipment, upon inspection, does not show signs of tampering or burns and/or other malfunctions, due to incorrect connections and/or overvoltage discharges. Warranty is provided, for the entire period indicated above, only on products whose installation is carried out within 6 months of the date of production shown on each product. The period of 30 months is calculated from the date of production.
- 9.2. The warranty is provided exclusively on EL.MO. premises.
- 9.3. All materials sent for repair to EL.MO., even if during the warranty period, shall be sent carriage paid. For materials repaired out of warranty, return to the customer will take place exclusively carriage forward. Material repaired during the warranty period will be returned with the first delivery possible. Only in the event of agreed urgency shall the return take place be carriage paid.
- 9.4. The products shall be shipped in their original packaging or in other packaging suitable to protect the products from damage during transport.
- 9.5. Returns are not be accepted unless authorised in advance. The return transport document must contain the details of the sales transport document and invoice. The amount of the credit may be reduced by any costs incurred in collecting or rechecking and re-testing the equipment. The credit note will be reversed at a later date or paid by direct remittance upon written notice from EL.MO. In any case, there must be no situations of insolvency on the part of the customer due to undue deductions or in any case not agreed upon. For further details on the RMA process, please refer to Regulation RMAUff.mkt12.04.18.
- 9.6. On the products sold, EL.MO. provides a warranty period of 12 months (Cat. Z in column G), 18 months (Cat. W in column G) or 24 months (Cat. Y in column G). Any replacement or return of products sold or extension of the warranty period shall be authorised according to that provided by the manufacturer.
- 9.7. Products or components subject to deterioration and wear and tear such as rechargeable and non-rechargeable batteries, video recorder heads, print heads, sensitive elements of gas detectors, electric motors and mechanical parts (mentioned herein by way of example only) are excluded from the warranty.
- 9.8. Any return of goods shall be expressly authorised by EL.MO. and shall take place in strict accordance with EL.MO.'s return procedure. In the event of unauthorised returns, the material will be automatically returned to the sender.

10) SOFTWARE AND FIRMWARE PRODUCT WARRANTY

- 10.1. Software and firmware products, hereinafter referred to as PRODUCTS, outside of the limited warranty described below, are provided "as is" in all their components (including the user instructions), without warranty of any kind. Moreover, EL.MO. does not guarantee the use of the PRODUCTS and the result of the use of the PRODUCTS in terms of correctness, accuracy or reliability; the risk of results and product performance is entirely borne by the CUSTOMER.
- 10.2. EL.MO. guarantees replacement of the media containing the software due to defects in materials and workmanship for 60 days from delivery. Defective media will be replaced without charge within this period.
- 10.3. Due to the complexity of the nature of the PRODUCTS, EL.MO. does not warrant that the same will be completely error free, that they will operate without interruption and that they will be compatible with all equipment or configurations of the said PRODUCTS. Customers are invited to check the work performed by the PRODUCTS and expressly accept the risk of use in the event of applications in which an error on their part may result in damage and/or injury to people, property and business activity.

- 10.4. EL.MO. expressly disclaims all other express or implied warranties on software and firmware, including the warranty of fitness for a particular purpose.

- 10.5. Under no circumstances, unless there is evidence of malicious or grossly negligent conduct by EL.MO., its agents, resellers, distributors and employees, shall EL.MO. be liable for any direct, indirect or incidental damages arising out of the use, misuse or inability to use the products, even if EL.MO. has been notified of the possibility of such events and, specifically but without limitation, in the case of loss of profits, loss of use, loss of equipment and data materials and/or costs relating to the repair, insurance or replacement thereof, as well as claims from third parties. In any case, the liability of EL.MO. or its distributors shall be limited to the price paid by the customer for the user license of the PRODUCTS.

- 10.6. Any other warranties expressed in writing or verbally by EL.MO. agents, distributors or employees shall under no circumstances extend the terms of these conditions, nor may the CUSTOMER rely on written communications of this kind.

- 10.7. The PRODUCTS might be supplied with a user license agreement, the signing of which guarantees the customer the right to use any update and improvement of the product at the conditions established from time to time by EL.MO.

11) REPAIRS

- 11.1. In order to improve and streamline the technical support service, we would like to propose to our Customers the repair of the material sold and manufactured by us with the charge of an amount which is highlighted below. The customer's discount will be applied to the amounts shown below.
- 11.2. For marketed-only products, repair at a fixed cost is guaranteed unless spare parts are no longer available. For products manufactured by us, fixed cost repair is guaranteed for products with manufactured no more than 8 years ago. For products more than 8 years old, we offer the possibility of replacement with updated products of the same model or with an alternative model of more recent construction.
- 11.3. Only upon specific request, and provided that the item is repairable, repair is possible at the rate indicated in the "Repair costs table" increased by 10% when the product is within 10 years of the production date, by 20% when the product is within 12 years and by 30% when the product exceeds 12 years from the production date.
- 11.4. Please note that the repair portal is available to customers that allows the status of materials sent to EL.MO. for repair at the EL.MO. ST laboratory to be consulted. To use the service, it is necessary to register on the website elmospa.com with the corporate account of the person who is in charge of the repairs in the customer's organisation and request activation of the service to marketing@elmospa.com.

12) REPAIR CONDITIONS

- 12.1. The repair of products in column RC in the price list will be carried out with invoicing of the corresponding amount only if the material meets the following conditions:
- 1) the product must not have been tampered with in any way;
 - 2) the board must be complete in all its parts (terminal board, connector, etc.);
 - 3) the defect found by the installer must be attached;
 - 4) if the material does not meet the conditions listed, the repair will be carried out with a 40% increase in the cost table below;
 - 5) if the material under warranty does not meet the conditions of points 1), 2) and 3), the warranty will automatically expire and the corresponding repair costs will be charged according to the table below.

Repair cost table

B	C	D	E	F	W
€ 19.00	€ 29.00	€ 38.00	€ 50.00	€ 65.00	€ 100.00
H	I	L	M	N	O
€ 160.00	€ 270.00	€ 320.00	€ 450.00	€ 520.00	€ 610.00
P	Q	R	S	X	
€ 700.00	€ 860.00	€ 980.00	€ 1180.00	*	

* Subject to quotation

- 12.2. A service for updating the Firmware of the Embedded DVRs, Video servers and IP/MEGAPIXEL cameras is available; in case of need contact EL.MO. technical support for further information.

- 12.3. For the Firmware updating activity, the rate corresponding to the letter "G" will be applied.

13) HELP DESK SERVICES

- 13.1. EL.MO. provides its installers with a team capable of providing an after-sales service of the same quality as that guaranteed with regard to its own products. The Help Desk telephone number is 0499200426, available from Monday to Friday from 8.30 am to 12.30 pm and from 2 pm to 6 pm.
- 13.2. If the line is busy, an automatic responder notifies the priority position reached (example: position 3, position 2); staying on hold allows the caller not to lose the priority acquired: if the wait exceeds 15 minutes the automatic responder informs the caller that the support request will be reported to the operators with the details of the person making the request for a subsequent contact by the competent operators. If the call is terminated before the 15 mins, the operators will not receive any automatic notification of the contact request. Conciseness and clarity in formulating questions will be essential to reduce the length of the communication, thereby improving the service quality and availability.
- 13.3. During periods of prolonged closure, EL.MO. provides customers with a technical support service, the procedures of which will be communicated through newsletters, news on the elmospa.com website and communications on the company's social channels.
- 13.4. The Help Desk service can also be reached via text message if the direct telephone line 049-9200426 is busy. The text message service is available on (+39)3460127401 from Monday to Friday from 8.30 am to 12.30 pm and from 2 pm to 6 pm. Text messages sent outside these hours will not be managed. Text messages must contain a maximum of 160 characters, the full name of the person making the request and the subject of the request. If the support request is straightforward and limited in scope, it can be managed through a simple reply to the message, otherwise the relevant personnel will provide a telephone contact.
- 13.5. All support requests received both by telephone and by text message are processed within the same day of the request after a period of time that varies in relation to the amount of requests in progress.
- 13.6. For support requests that do not require immediate contact with the operator and for non-urgent requests for further information/explanation, the Help Desk service can be contacted by writing to assistenza.technica@elmospa.com and indicating the company name/full name of the person making the request and a detailed description of the request itself; the sender will immediately receive notification of receipt of the email. The Help Desk service will respond to the support request received via email within a maximum of 3 working days.

14) EXTERNAL SUPPORT SERVICES

- 14.1. EL.MO. provides its customers with technical support personnel for conducting inspections and functionality checks. The service provision procedure must be agreed with the head office according to the availability of EL.MO. technical personnel. The hourly costs, excluding travel expenses, are as follows:

15) SPECIALISED TECHNICAL PERSONNEL

For each working hour, including return journeys, on working days from Monday to Friday with a maximum of 8 hours	€ 40.00
For each hour worked on Mondays to Fridays from 6.30 am to 8.30 am and from 6 pm to 10.30 pm	€ 50.00
For each hour worked on Mondays to Fridays from 10.30 pm to 6.30 am	€ 60.00
For each hour worked on Saturdays and/or public holidays from 6.30 am to 10.30 pm	€ 75.00
For each hour worked on Saturdays and/or public holidays from 10.30 pm to 6.30 am	€ 100.00

Software specialist

For services provided by a technician in this category, all rates indicated will be increased by 30%.

Fractional hour charge

All fractions of an hour of less than 30 minutes will be rounded up to the next half hour.

Travel expenses

All travel expenses will be charged at cost.

16) CONSULTANCY AND DESIGN

- 16.1. Security systems increasingly involve the simultaneous presence of intrusion and fire detection, CCTV, access control, technological system management and alarm centralisation systems.
- 16.2. EL.MO. provides a consultancy and design support service to installers, technical firms and industry operators for the development of

feasibility studies, offers and projects; in the event that the problems that the security operator needs to address require more specific and detailed knowledge, EL.MO. is able to provide services against payment.

- 16.3. The systems design department can provide all the necessary details on costs and service availability.

17) FORCE MAJEURE AND HARDSHIP CLAUSE

- 17.1. In partial waiver and/or integration to the provisions of Articles 1463 et seq. and 1467 et seq. of the Italian Civil Code, in the event that, during the performance of this contract, circumstances arise that are not attributable to the Parties and that make it impossible for EL.MO. to precisely fulfil its contractual obligations or the fulfilment of such obligations excessively burdensome (including, by way of example but not limited to, cases in which the onset of an epidemic, the occurrence of a major disaster, the outbreak of a serious local and/or world conflict and the like have prevented the delivery of the goods sold or have delayed it due to the slowdown of cross-border trade, the reduction of production by subcontractors and consequent supplies, increases in production costs and/or prices of components used to develop the goods sold, the impossibility of finding components on the market for the manufacture of the goods sold or of procuring them in good time, etc.) the relationship is governed by the following clauses. In the case in point, EL.MO. cannot in any way be considered liable for its breach deriving from such incapacitating event, in accordance with Articles 1218 and 1256 of the Italian Civil Code.
- 17.2. In the event that the performance of EL.MO. has become definitively and totally impossible due to the contingencies contemplated in the previous clause, as an express waiver of Art. 1463 of the Italian Civil Code, this contract shall remain in force between the Parties and the buyer, that bears the risk, shall in any case be obliged to fulfil its own obligations.
- 17.3. In the event that the performance of EL.MO. has become partially and/or temporarily impossible due to the contingencies contemplated in the above clause 17.1, EL.MO. shall inform the counterparty in writing of the reasons for the delay, without the buyer, as an express waiver of Art. 1464 of the Italian Civil Code, being able to suspend the performance of its own obligations or terminate this contract. In this case, should the buyer wish to claim that this had led to it no longer being interested in obtaining the services and that it intends to terminate the contract, it may not take legal action to obtain such termination, but may only ask EL.MO. to initiate negotiations aimed at renegotiating the original relationship, affected by the contingencies, which shall be conducted in accordance with the principle of good faith pursuant to Articles 1175 and 1375 of the Italian Civil Code. After the ninetieth (90th) day from the request for renegotiation without the Parties having reached an agreement, the contract shall remain in force in its original formulation. It is understood that before the expiry of the term of ninety days from the renegotiation request, the buyer may not apply to the competent Judicial Authorities to compulsorily renegotiate or terminate the contract.
- 17.4. If, as a result of the contingencies referred to in clause 17.1 above, the performance of EL.MO. has become excessively burdensome compared to that of the buyer, EL.MO. shall notify the buyer and may suspend its performance without this being deemed a material breach of its obligations. In this case, if the excessive burden is related to an unforeseen increase in the costs of production and/or purchase of the components of its products, the price of the goods sold shall automatically be increased in proportion to the increase in costs that has occurred. In all other cases in which the performance of EL.MO. has become excessively burdensome compared to that of the buyer, the Parties undertake to initiate negotiations in order to fairly modify the conditions of sale, pursuant to Art. 146(3) of the Italian Civil Code, carrying out the same in compliance with the principle of fairness and good faith pursuant to Articles 1175 and 1375 of the Italian Civil Code. After the ninetieth (90th) day from the request for renegotiation without the Parties having reached an agreement, EL.MO. shall have the right to withdraw from this contract.

18) CASE HISTORIES

- 18.1. The Buyer is aware of the possibility that EL.MO., in the context of the creation of different collections of references (hereinafter also referred to as case histories) aimed at promoting its activity and the most important works implemented with the products sold by EL.MO., has the need to obtain, from the most well-known, prestigious and authoritative users where the EL.MO. branded security systems are installed - directly or through the intermediation of the Customer - (hereinafter

also referred to as "Premium Customers"), the related authorisation to publish the data identifying the facility (such as: the name of the installation site; the location of the installation site; the trademark/logo representing the user where the systems have been installed), the system installed (such as information illustrating the security solutions adopted to customise the system in accordance with the needs of the Premium Customer) and some images illustrating the location and the security system, closely related to the system installed. Therefore, in accordance with that already contemplated by the above clause 1.2, the Buyer expressly declares to accept that the issue by the latter of the purchase order (hereinafter also referred to as "Order"), in accordance with the offer made by EL.MO, implies acceptance of these Conditions and the simultaneous and express waiver of its own conditions, also where these may be mentioned in the contractual documentation and/or in the Order and/or in the invoices, as well as, consequentially, provision of informed consent of the Premium Customer to the publication of the case histories in compliance with the procedures contemplated in this clause.

- 18.2. EL.MO. points out that, within the scope of the case histories, it will not disclose any technical data that may allow the public to identify the location of the security devices installed at the Premium Customer's sites or that may affect, even potentially, their correct functioning.
- 18.3. EL.MO. warrants that such data and images will not be subject to any modification and/or alteration whatsoever – with the exception of data and images that are contrary to the provisions of clause 18.2 above. - and will be published on elmospa.com, globalpro.elmospa.com and on the Facebook, LinkedIn and YouTube social channels of EL.MO. Spa. As a result, the data referred to in clause 18.1 above will be visible to anyone accessing the aforementioned websites or social channels and may be viewed by CUSTOMERS - PROSPECTS - USERS OF VARIOUS KINDS.
- 18.4. In the event that the Premium Customer has, in turn, purchased the security system from the Buyer, the Buyer, also in accordance with Art. 1381 of the Italian Civil Code, undertakes to obtain the consent of the Premium Customer to publication of the case histories and to promptly notify EL.MO. of any refusal to publish the case histories, even if such refusal is expressed subsequently by the Premium Customer. Should the Buyer fail to fulfil its obligations under this clause, the Buyer shall be required to compensate EL.MO. for any damages incurred as a result of such failure, and shall indemnify EL.MO. for any negative consequences of such breach.
- 18.5. In any case, before proceeding with publication of the case histories, EL.MO. shall be responsible for submitting any documents to the Premium Customer, sending them to the address indicated from time to time by the Buyer and/or by the Premium Customer itself, in order to allow the latter, if necessary, to prevent publication.
- 18.6. In any case, consent to publication of the case histories shall be considered to have been provided the Premium Customer should fifteen (15) working days elapse from the sending of the document, contemplated to the above clause 18.5, without EL.MO. having received refusal of the related publication, expressed by the Premium Customer by sending a written communication to the following e-mail address: marketing@elmospa.com.
- 18.7. EL.MO. also declares that publication of the case histories will be carried out with all the safeguards provided for by the provisions of the new General Data Protection Regulation EU 2016/679 (GDPR) and that EL.MO. itself, as data controller, hereby expressly undertakes, pursuant to Art. 1381 of the Italian Civil Code, to also require all its employees or those who collaborate with it to comply with current legislation regarding the protection of personal data (since data and images could be processed by external personnel for the layout or the uploading of the same). With reference to the regulation, external personnel have been appointed as data processors, pursuant to and for the purposes of Article 28 of the GDPR, and are aware of current legislation. The processing of the data collected will also be carried out in automated and/or manual form, in compliance with the provisions of Article 32 of GDPR 2016/679. In accordance with the principles of lawfulness, limitation of purpose and data minimisation, pursuant to Article 5 of GDPR 2016/679, data and images will remain uploaded on the website and retained for a period of 10 years.
- 18.8. In any case, the Premium Customer has the right at any time to:
 - obtain confirmation of the existence or otherwise of same such data and, if so, to know its content and origin;
 - verify its accuracy and request the correction of inaccurate data;
 - integration of incomplete data or the updating of outdated data;

- obtain restriction of processing, where one of the cases provided for in Article 18 of the GDPR applies;
- request deletion of data processed in violation of the law, or in the presence of one of the other conditions provided for in Article 17, (1) (a), (b), (c), (e) and (f) of the GDPR;
- object in any case, for legitimate reasons, to its procession;
- object to processing in the other cases provided for in Article 21(2), (3) and (22) of the GDPR;
- withdraw its freely provided consent to the processing of personal data at any time for one or more specific purposes, without prejudice to the lawfulness of the processing based on the consent provided before withdrawal;
- obtain the personal data being processed in a format compatible with standard computer applications, in order to permit its transfer to other platforms of preference of the Premium Customer itself, without hindering direct transmission of the data processed to another Data Controller, where such direct transmission is technically feasible [so-called right to data portability].

Requests relating to the exercise of the aforementioned rights connected to the General Data Protection Regulation should be addressed to the Data Controller: EL.MO. Spa Via Pontarola 70 Reschigliano di Campodarsego 35011, Padua, Italy by sending an email to privacy@elmospa.com.

19) DEROGATING OR SUPPLEMENTARY AGREEMENTS

- 19.1. Any derogating or complementary agreement to these general conditions of sale shall be agreed in writing pursuant to and for the purposes of Art. 1352 of the Italian Civil Code.

20) SETTLEMENT OF DISPUTES

- 20.1. Any dispute arising from or in any way connected with this contract shall be resolved through the mediation procedure provided for by Legislative Decree 28/2010. - "Implementation of Article 60 of Law no. 69 of 18 June 2009 on mediation for the settlement of civil and commercial disputes" - administered and governed according to the regulations of the Padua Chamber of Mediation, a body of the Padua Chamber of Commerce, Industry and Crafts.
- 20.2. If the mediation procedure pursuant to clause 17.1 above is not concluded with a positive outcome, all disputes arising from or in any way connected with this contract shall be referred to the exclusive jurisdiction of the Court of Padua.

Price list in alphabetical order

Code	Product code	Description	RC	W	Availability notes	Page
B712G	BTBAT0100200	7 Ah / 12 V AGM e-Vision battery	.	Z	-	16
C10RS	GAGRA0000900	Power supply for ICON100AVR and ITDC controllers and accessories	C	30	-	16
CAPT	SAACC0000300	Cable for direct ICON100AVR controller programming	.	Z	-	16
CCIDA150	LRACC0200200	IDA245 card holder	.	Z	-	11
EBT01	LCEBT0000100	Contactless wall-mount exit button	X	Z	-	17
EIO88	COACC0000100	Input/output expansion board for ITDC controllers	X	Z	-	14
ERSCONV	SAACC0000800	TCP/IP RS-232/485/422 converter. Serial to LAN converter for the integration of an access control system on an existing LAN network	X	Z	new	16
ICON100AVR	COICO0000300	Single-door Access Control Panel, (1 reader IN / 1 reader OUT). PassManager and STANDARD software required	X	Z	-	13
ICON100KBD	COACC0000300	ICON100/ITDC keypad and display kit	X	Z	-	13
IDA245	LRACC0100200	Active proximity (2.4-2.5 GHz ISM) card, 3 V Lithium replaceable battery included; up to 15 m configurable range	.	Z	-	11
IDC80	TTSMR0000400	Proximity reading magnetic stripe card (RF 125kHz). Surface customizable upon request	.	Z	-	10
IDC8025	TTSMR0000500	Proximity reading magnetic stripe card (RF 125 kHz), 25 pcs.	.	Z	-	10
IDC8050	TTSMR0000600	Proximity reading magnetic stripe card (RF 125 kHz), 50 pcs.	.	Z	-	10
IDK50	TTSMR0001000	Passive proximity tag (RF 125 kHz)	.	Z	-	10
IDK5025	TTSMR0001100	Passive proximity tag (RF 125 kHz), 25 pcs.	.	Z	-	10
IDK5050	TTSMR0001200	Passive proximity tag (RF 125 kHz), 50 pcs.	.	Z	-	10
IDT900C	LRACC0100300	Passive proximity card (840 - 960 MHz)	.	Z	upon request	11
IDT900C25	LRACC0100400	Passive proximity card (840 - 960 MHz), 25 pcs.	.	Z	upon request	11
IDT900C50	LRACC0100500	Passive proximity card (840 - 960 MHz), 50 pcs.	.	Z	upon request	11
IDT900T	LRACC0300100	Adhesive passive proximity tag (840 - 960 MHz)	.	Z	upon request	11
IDT900T25	LRACC0300200	Adhesive passive proximity tag (840 - 960 MHz), 25 pcs.	.	Z	upon request	11
IDT900T50	LRACC0300300	Adhesive passive proximity tag (840 - 960 MHz), 50 pcs.	.	Z	upon request	11
IMC125	TTSMR0001300	SMR (RF 125 kHz) proximity minitag	.	Z	-	10
IMC12525	TTSMR0001400	SMR (RF 125 kHz) proximity minitag, 25 pcs.	.	Z	-	10
IMC12550	TTSMR0001500	SMR (RF 125 kHz) proximity minitag, 50 pcs.	.	Z	-	10
IP10	LCIPA0000200	Indoor/outdoor EM 125 kHz proximity reader	X	Z	-	7
IP100R	SIPA0000100	Stand-alone (EM 125 kHz) proximity reader with backlit 12-key keypad for typing passwords and PINs	X	Z	upon request	8
IP505R	SNIPA0000100	Stand-alone (EM 125 kHz) proximity reader with LCD and backlit 12-key keypad for typing passwords and PINs	X	Z	upon request	8
IPC80P	TTIPA0000100	Passive proximity reading card (EM 125kHz), reading distance up to 10 cm. Surface customizable upon request	.	Z	-	9
IPC80P25	TTIPA0000200	Standard proximity reading card (EM 125 kHz), 25 pcs.	.	Z	-	9
IPC80P50	TTIPA0000300	Standard proximity reading card (EM 125 kHz), 50 pcs.	.	Z	-	9
IPK101	LCIPA0000100	Indoor EM 125 kHz proximity reader with backlit 12-key keypad for typing passwords and PINs	X	Z	upon request	7
IPK50	TTIPA0000700	Passive proximity tag (EM 125 kHz), up to 5 cm reading distance	.	Z	-	9
IPK5025	TTIPA0001000	Passive proximity tag (EM 125 kHz), 25 pcs.	.	Z	-	9
IPK5050	TTIPA0001100	Passive proximity tag (EM 125 kHz), 50 pcs.	.	Z	-	9
IPTAG	TTIPA0001200	Adhesive passive proximity tag (EM 125 kHz)	.	Z	-	9
IPTAG25	TTIPA0001300	Adhesive passive proximity tag (EM 125 kHz), 25 pcs.	.	Z	-	9
IPTAG50	TTIPA0001400	Adhesive passive proximity tag (EM 125 kHz), 50 pcs.	.	Z	-	9
ISC80P	TTMFR0001300	Passive MIFARE (RF 13.56 MHz) proximity reading card	.	Z	new	5
ISC80P25	TTMFR0001400	Passive MIFARE (RF 13.56 MHz) proximity reading card, 25 pcs.	.	Z	new	5
ISC80P50	TTMFR0001500	Passive MIFARE (RF 13.56 MHz) proximity reading card, 50 pcs.	.	Z	new	5
ISK50	TTMFR0000700	Passive MIFARE proximity tag (RF 13.56 MHz)	.	Z	-	6
ISK5025	TTMFR0000800	Passive MIFARE proximity tag (RF 13.56 MHz), 25 pcs.	.	Z	-	6
ISK5050	TTMFR0000900	Passive MIFARE proximity tag (RF 13.56 MHz), 50 pcs.	.	Z	-	6
ITDC	COITD0000200	Board controller, 2-4 gates, 20,000 users, manages IP and RF readers	X	Z	upon request	14
K107S	PPCMACV01700	UTKC5025 - Long-range surface-mount magnetic contact with NO/NC relay (2 pcs.)	.	Z	1-piece price	16
K110	PPCMACV02300	UTKCHS47PM - Long-range surface-mount magnetic contact with magnetic protection function	.	Z	-	17
MDARM	OCMIN0100100	Arm/disarm module for RS-485 serial line, to be used with a proximity card reader	D	30	-	17
NEORF245	LR2450000400	Indoor/outdoor proximity (2.4-2.5 GHz ISM) card reader for vehicle access control	X	Z	upon request	11
PASSCT01	COEPA0000200	DIN rail PASSCONTROLLER controller for 1 gate, expandable up to 32, powered via PoE	H	30	soon available	12
PASSCT02	COEPA0000300	DIN rail PASSCONTROLLER controller for 1 gate, expandable up to 32	W	30	soon available	12
PASSGATE	COEPA0000100	Single-door access control passive interface module (1 reader IN / 1 reader OUT)	E	30	new	12
PMANAGER01	SASCA0100100	PassManager licence for an unlimited number of gates and unlimited users, 1 client	.	.	-	18
PMANAGER02	SASCA0100200	PassManager licence for 64 gates and unlimited users, 1 client	.	.	-	18
PMANAGER03	SASCA0100300	PassManager licence for 25 gates and unlimited users, 1 client	.	.	-	18
PMANAGER04	SASCA0100400	PassManager licence for 10 gates and unlimited users, 1 client	.	.	-	18
PMANAGERLC	SASCA0100500	PassManager licence for 1 additional client	.	.	-	18
PRINTCA	SGSPG0000100	Graphic layout printing (same text and images on all cards, price per card)	.	Z	-	17
PRINTIM	SGIGR0000100	Design of the graphic layout for the customization of white cards (for each group of printed cards)	.	Z	-	17
PRINTMA	SGSPG0000200	Additional consecutive numeric code printing on each card (price per card)	.	Z	Minimum 20 pcs.	17
PRINTMFT	SGIGR0000300	Additional photo printing on each card (price per card)	.	Z	Minimum 20 pcs.	17
PRINTMNM	SGIGR0000200	Additional name printing on each card (price per card)	.	Z	Minimum 20 pcs.	17
R1	LCIPA0000600	e-Pass line indoor/outdoor EM 125 kHz proximity reader	X	Z	-	7
R1K	LCIPA0000700	e-Pass line indoor/outdoor EM 125 kHz proximity reader with backlit 12-key keypad for typing passwords and PINs	X	Z	-	7
R1S	LCIPA0000800	e-Pass line indoor EM 125 kHz proximity reader	X	Z	-	7
R2	LCMIX0000100	e-Pass line indoor/outdoor MIFARE 13.56 MHz proximity reader	X	Z	-	5
R2K	LCMIX0000200	e-Pass line indoor/outdoor MIFARE 13.56 MHz proximity reader with backlit 12-key keypad for typing passwords and PINs	X	Z	-	5
RDESKEM	LCDSK0000100	Desk EM 125 kHz proximity reader with USB interface	X	Z	-	7
RDESKMF	LCDSK0000300	Desk MIFARE 13.56 MHz proximity reader with USB interface	X	Z	-	5
RF10	LCSMR0000100	Indoor/outdoor SMR (RF 125 kHz) line proximity reader	X	Z	upon request	10
RF900I	LR9000000100	Indoor/outdoor proximity (840 - 960 MHz FHSS) card reader for vehicle access control	X	Z	upon request	11
RFICR	LCMFR0000400	Indoor proximity reader for "FERSERVIZI" and MIFARE 13.56 MHz contactless cards	X	30	-	5
RFICREXT	LCMFR0000500	Outdoor proximity reader for "FERSERVIZI" and MIFARE 13.56 MHz contactless cards	X	30	-	5

Price list in alphabetical order

Code	Product code	Description	RC	W	Availability notes	Page
RFK101	LCSMR0000200	Indoor SMR (RF 125 kHz) line proximity reader with backlit 12-key keypad for typing passwords and PINs	X	Z	upon request	10
S10S	PPCMACI00300	Cylindrical flush-mount magnetic contact. NO/NC switch Reed contact (10 pcs.)	.	Z	1-piece price	16
SF485	ACCIV0001400	SSF protection filter for RS-485/422 serial lines. Protects up to 3 serial lines at the same time	B	30	-	16
TCIPMOD	COACC0000400	TCP-IP module for ITDC and ICON100AVR controllers	.	Z	-	14
URSCONV	SAACC0000700	USB RS-232/485/422 converter.	X	Z	new	16

Product updates

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EL.MO. reserves the right to change products characteristics without prior notice