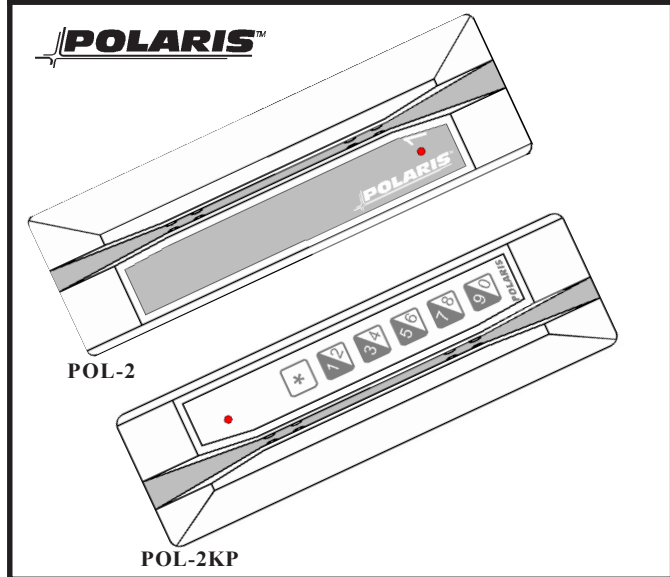


The POL-2 & POL-2KP



The POL-2 and POL-2KP magnetic stripe readers are the new generation of the POLARIS series. Packed with new features, the POLARIS-2 series provides the right combination of quality and reliability.

Bi-directional card reading

A card can be swiped through the reader in both directions and the reader's microprocessor automatically detects and rejects read errors. This prevents improper data being sent to the access control system.

Integrated keypad (POL-2KP)

With an integrated 6-touch membrane keypad, the Polaris-2KP helps bring down the cost of your installations. The high quality lexan membrane is rated for 1 million duty cycles. The Polaris-2 keypad also provides a special "star" button used to trigger the arming or disarming of most alarm panels.

Featuring

- Integrated membrane keypad (POL-2KP)
- Bi-directional, standard and non-standard ABA-track magnetic card reading
- Four easily configurable output modes
- Built-in tamper switch, piezo buzzer, bi-color LED
- Indoor / outdoor use
- High endurance head assembly provides over 1 million reads
- Tough polycarbonate case
- U.V. protectant prevents discoloring

4 configurable outputs

Configurable outputs provide flexibility for the installer. Wiegand 26 bits, Wiegand 34 bits, ABA clock & data and ABA-Wiegand outputs can be programmed easily in the field without special programming cards or tools. These configurable outputs make the Polaris-2 series compatible with most access control systems on the market.

Indoor and outdoor use

POL-2 and POL-2KP readers are both suitable for indoor as well as outdoor use. The PC boards are covered with six coats of the same conformal coating used for electronic road sign PC boards. The lexan keypad (POL-2KP) is weatherproof and durable. The weatherized construction allows it to withstand heat, dirt, humidity, rain, snow and ice.

Easy installation

Small size provides mullion mount, wall mount or single gang electrical box mounting plate. Includes a tampered lock plate. Can be installed in minutes.

Stylish design

Sturdy, attractive, stylish design can be installed anywhere. Suitable for the most difficult environments, from the parking gate to the executive boardroom.

Technical Specifications

Power..... 5 Volt DC \pm 5% 35mA
Dimensions..... 15.86 x 4.45 x 3.76 cm
 (6.24"H x 1.75"W x 1.48"D)
Color..... White
Operating temperature... -40°C to 65°C (-40°F to 150°F)
Utilisation..... Interior / exterior
Weight..... 0.18Kg (0.4 lbs)
Cable Type..... 6, 8, or 10 conductor, No 10
 (18AWG) standard with overall shielded.
Cable size **Max. distance**
 No.8 (20AWG)..... 90m (300 feet)
 No.10 (18AWG)..... 150m (500 feet)
Certification..... UL 294, CE, FCC

Note: POL-2KP is compatible with WinPass, EntraPass V2 and KL-8000 only

Ordering information

POL-2

Polaris 2 magnetic card stripe reader. Built-in tamper switch, piezo buzzer, bi-color LED.

POL-2KP

Polaris 2 magnetic card stripe reader with integrated keypad. Built-in tamper switch, piezo buzzer, bi-color LED.

POL-WP

Wall plate for mounting Polaris reader on single gang electrical box.

POL-C1CN

Polaris magnetic card stripe card with card number imprinted on back of card.

Four easily configurable output modes

- 1) To configure the output mode choose the appropriate electrical connection between output wires (green and white), LED wire (brown) and buzzer wire (blue).
- 2) Power up the reader. If a valid connection is detected, the programming mode code (5 short beeps) will sound, followed by the output mode code. The output mode code is a specific number of short beeps. This number depends on the output mode (ex: 1 beep means mode #1, 2 beeps means mode #2, etc.) **If the output mode has never been programmed, the reader output mode will be ABA-clock & data (mode #3).**
- 3) Power OFF the reader.
- 4) Then connect the reader according to the wiring diagram below. Push the splice and all excess cable back into the wall. Attach the reader to the locking plate as follows: Place the reader over the locking plate with the head of the locking screw in the notch on the bottom end of the reader. Slide the reader into the locking plate. Tighten the screw to lock the reader in place. Mounting the reader to an electrical box requires the optional wall plate: POL-WP. When using the wall plate, first attach the wall plate to the electrical box. Then attach the locking plate to the wall plate with the screws provided.
- 5)

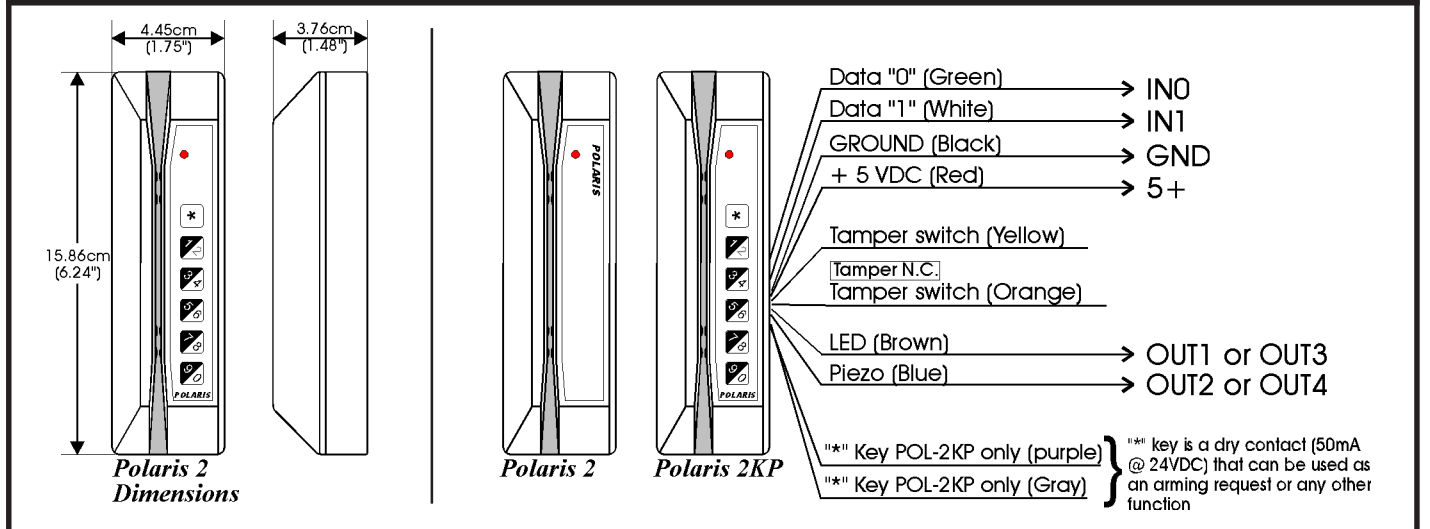
ELECTRICAL CONNECTIONS	OUTPUT MODE	KANTECH READER TYPE
Green with blue white with brown	Mode 1 Wiegand 26 bits	1
White with blue and brown	Mode 2 Wiegand 34 bits	2
Green with brown white with blue	Mode 3 ABA-Clock & data	11
Green with blue and brown	Mode 4 ABA-Wiegand	8

POL-C1CN

Part #..... POL-C1CN
Magnetic stripe..... ABA track II, ISO-2
Bar code..... Code 39
Material..... PVC
Card dimensions..... 8.6 x 5.4 x 0.08 cm
 (3.375" x 2.125" x 0.030")
Weight..... 6.0 gm (0.21 oz)

POL-C5CN same as POL-C1CN with blank front surface

Wiring Diagram



CS1103EN-9902