

iCLASS® Transit Readers

Contactless Smart Card Readers

Compatible with Sony® FeliCa™ & CEPAS Transit Cards

- ▶ **Multiple Form Factors** - Choose from a variety of mullion, EU/Asia Backbox and US/EU/Asia Backbox mounted readers
- ▶ **Dual-Factor Authentication** - Combine contactless card presentation with a PIN
- ▶ **Multiple Technologies** - Utilize multiCLASS® transit readers to simultaneously use the most popular proximity technologies (HID, Indala®, AWID) in conjunction with iCLASS, MIFARE®, Sony FeliCa™ and CEPAS 13.56 MHz smart cards.



ACCESS flexibility.

iCLASS® Transit Readers are revolutionary hybrid contactless smart card readers that read secure user identification data from HID iCLASS credentials and unique serial numbers from Sony FeliCa™, CEPAS and MIFARE® cards for access control. Since the Transit Reader can read multiple card types, it provides you with one solution for all your access control requirements, now and into the future.

iCLASS Transit Readers are user-friendly, delivering affordability with the exceptional reliability which HID is known for worldwide. Now you have the convenience of a single card for transit and access control.

Using the 13.56 MHz technology platform, iCLASS Transit Readers offer a long read range with the power and heightened security of smart card technology, making them ideal for access control applications. Using the dual technology 125 kHz and 13.56 MHz RP readers allows sites to either utilize multiple card technologies at existing sites or migrate from the most popular proximity technologies to the most popular 13.56 MHz contactless smart cards.

iCLASS Transit Readers are ideal for both indoor and outdoor use with a configurable, high-intensity tri-color light bar, which provides distinguishable visual indication even in direct sunlight. It also incorporates various tone sequences to signify status conditions.

- ▶ Multi-technology cards are compatible with Secure user identification data from HID iCLASS credentials and unique serial numbers from MIFARE, CEPAS and FeliCa cards.
- ▶ Confidently install the reader knowing that the Wiegand output easily interfaces with most existing Wiegand protocol access control panels.
- ▶ Highly secure iCLASS cards offer 64-bit diversified keys for mutual authentication.
- ▶ iCLASS encrypted data transfer between the card and the reader through the use of secure algorithms.
- ▶ Easy-to-install, two-part reader, compatible with global electrical back boxes, and made more secure with the addition of a security screw.
- ▶ Multi-technology 13.56 MHz interface is compatible with iCLASS, ISO14443A (MIFARE) CSN, ISO14443B CSN, ISO15693 CSN, FeliCa IDm, CEPAS CSN/CAN, HID Prox and AWID Prox.

Features

Security

iCLASS® 64-bit authentication keys are extremely secure. Readers and cards require matching keys to function. All RF data transmission between the card and reader is encrypted using a secure algorithm. The key management system reduces the risk of compromised data and duplicated cards.

Programming/ Configuration

iCLASS key management is made easy! All cards are shipped with unique diversified keys, and readers are shipped with compatible keys. While cards and readers with Standard keys are interchangeable, the keys are highly secure.

Audiovisual Indication

Audio sounder provides various tone sequences to signify access granted, access denied, power up and diagnostics. Visually impaired cardholders can easily distinguish between access granted and access denied. A high-intensity light bar provides a clear visual status indication in red, green or amber, even in bright sunlight.

Easily Interfaced

The Transit Reader Wiegand output easily interfaces with most existing Wiegand protocol access control panels. The reader reads standard proximity format data from HID iCLASS cards and will output data as encoded. The reader can be configured to read MIFARE®, FeliCa, or CEPAS cards and output 26-bit or 64-bit FeliCa IDm, CEPAS CSN/ CAN or MIFARE CSN over the Wiegand interface.

Indoor/Outdoor Design

Rugged, weatherized polycarbonate enclosure, designed to withstand harsh environments, provides reliable performance and resistance to vandalism.

Options

Color - Black, Gray
Key Management (iCLASS) - Standard
Selectable Output Type (see HTOG for more details)
Standard Termination - 18" (.5 m) cable pigtail
Programmable LED/Beeper operation
Accessory - Security Tool; 04-0001-03

	R10-T	R15-T	R30-T	R40-T	RK40-T	RP15-T	RP40-T	RPK40-T
* Model Numbers	6109C	6149C	6119C	6129C	6139C	6144C	6124C	6134C
** Read Range	iCLASS® Card: Up to 3.25" (8.9 cm) iCLASS Key/Tag: Up to 1.5" (3.8 cm) MIFARE® / DESFire® Card (CSN): Up to 2.0" (5.1 cm)	iCLASS Card: Up to 3.5" (8.9 cm) iCLASS Key/Tag: Up to 1.5" (3.8 cm) MIFARE / DESFire Card (CSN): Up to 2.0" (5.1 cm)	iCLASS Card: Up to 4.0" (10.2 cm) iCLASS Key/Tag: Up to 2.0" (5.1 cm) MIFARE / DESFire Card (CSN): Up to 2.75" (7.0 cm)	iCLASS Card: Up to 4.75" (12.1 cm) iCLASS Key/Tag: Up to 2.0" (5.1 cm) MIFARE / DESFire Card (CSN): Up to 2.5" (6.4 cm)	iCLASS Card: Up to 4" (10.2 cm) iCLASS Key/Tag: Up to 1.25" (3.2 cm) MIFARE / DESFire Card (CSN): Up to 2" (5.1 cm)	iCLASS Card: 3.0 - 3.25" (7.5 - 8.3 cm) iCLASS Key/Tag: 1.0 - 1.5" (2.5 - 4.0 cm) HID Prox ISO Card: 2.5 - 3.5" (6.5 - 9.0 cm) HID Prox Clamshell Card: 3.5 - 4.0" (9.0 - 10.0 cm) HID Prox Keyfob/Tag: 1.25 - 1.75" (3.2 - 4.5 cm) Indala Proximity ISO Card: 1.5 - 2.0" (4.0 - 5.0 cm) Indala Proximity Clamshell Card: 1.75 - 2.25" (4.5 - 5.5 cm) Indala Proximity Keyfob/Tag: 1.0 - 1.25" (2.5 - 3.2 cm)	iCLASS Card: 4.0 - 4.5" (10.2 - 11.4 cm) iCLASS Key/Tag: 1.0 - 2.0" (2.5 - 5.0 cm) HID Prox ISO Card: 2.5 - 3.5" (6.5 - 9.0 cm) HID Prox Clamshell Card: 3.5 - 4.0" (9.0 - 10.0 cm) HID Prox Keyfob/Tag: 1.0 - 2.25" (2.5 - 5.5 cm) Indala Proximity ISO Card: 1.5 - 2.0" (4.0 - 5.0 cm) Indala Proximity Clamshell Card: 1.75 - 2.25" (4.5 - 5.5 cm) Indala Proximity Keyfob/Tag: 1.0 - 1.75" (2.5 - 4.5 cm)	iCLASS Card: 3.5 - 4.25" (9.0 - 11.0 cm) iCLASS Key/Tag: 1.0 - 1.5" (2.5 - 4.0 cm) HID Prox ISO Card: 2.5 - 3.5" (6.5 - 9.0 cm) HID Prox Clamshell Card: 3.5 - 4.0" (9.0 - 10.0 cm) HID Prox Keyfob/Tag: 1.25 - 1.75" (3.2 - 4.5 cm) Indala Proximity ISO Card: 1.5 - 2.0" (4.0 - 5.0 cm) Indala Proximity Clamshell Card: 1.75 - 2.25" (4.5 - 5.5 cm) Indala Proximity Keyfob/Tag: 1.0 - 1.25" (2.5 - 3.2 cm)
Mounting	The R10-T is physically HID's smallest reader and is ideally suited for mullion-mounted door installations, U.S. single-gang J-box or any flat surface (Reader will not cover junction box).	The R15-T is physically one of HID's smallest readers and is ideally suited for mullion-mounted door installations, U.S. single-gang J-box or any flat surface (Reader will not cover junction box).	The R30-T attaches to U.S./EU/Asian back box or to any flat surface. Reader body fits onto mounting plate. Cover fits over reader body, secured with a screw. An auto-tuning circuit provides consistent read ranges on various mounting surfaces.	The R40-T is designed to mount and cover single gang switch boxes primarily used in the United States and includes a slotted mounting plate for European and Asian back box spacing.	The RK40-T is designed to mount and cover single gang switch boxes primarily used in the United States and includes a slotted mounting plate for European and Asian back box spacing.	The RP15-T is physically one of HID's smallest readers and is ideally suited for mullion-mounted door installations, U.S. single-gang J-box or any flat surface (Reader will not cover junction box).	The RP40-T is designed to mount and cover single gang switch boxes primarily used in the United States and includes a slotted mounting plate for European and Asian back box spacing.	The RPK40-T is designed to mount and cover single gang switch boxes primarily used in the United States and includes a slotted mounting plate for European and Asian back box spacing.
Dimensions	1.9" x 4.0" x .9" (4.8 x 10.3 x 2.3 cm)	1.9" x 6.0" x .9" (4.8 x 15.3 x 2.3 cm)	3.30" x 3.30" x .75" (8.4 x 8.4 x 1.9 cm)	3.3" x 4.8" x 1.0" (8.5 x 12.2 x 2.4 cm)	3.3" x 4.8" x 1.1" (8.5 x 12.2 x 2.8 cm)	1.9" x 6.0" x .9" (4.8 x 15.3 x 2.3 cm)	3.3" x 4.8" x 1.0" (8.4 x 12.2 x 2.4 cm)	3.3" x 4.8" x 1.1" (8.5 x 12.2 x 2.8 cm)
Power Supply	5 to 16 VDC reverse voltage protected • Linear supply recommended							
Environmental	IP55							
*** Current Requirements	R10-T - 55mA AVG, 116mA PEAK	R15-T - 55mA AVG, 112mA PEAK	R30-T - 55mA AVG, 121mA PEAK	R40-T - 55mA AVG, 121mA PEAK	RK40-T - 85mA AVG, 116mA PEAK	RP15-T - 55mA AVG, 114mA PEAK	RP40-T - 55mA AVG***, 141mA PEAK	RPK40-T - 85mA AVG, 169mA PEAK
Operating Temperature	-31° to 150° F (-35° to 65° C)							
Operating Humidity	5% to 95% relative humidity non-condensing							
Transmit Frequency	13.56 MHz					13.56 MHz and 125 kHz		
Cable Distance	Wiegand Interface 500 ft (150 m) 22 AWG							
Card Compatibility	• 15693 - read only CSN; 2k (256 Byte), 16k bit (2k Bytes) and 32k (4k Byte) iCLASS credentials secure format • FeliCa™ - read only serial number (IDm). • CEPAS - Read CSN or CAN. • 14443A - read only CSN; MIFARE, DESFire® and Ultralight CSN • 14443B - read only CSN					• 125 kHz HID Prox and AWID, or Indala Prox • 15693 - read only CSN; 2k (256 Byte), 16k bit (2k Bytes) and 32k (4k Byte) iCLASS credentials secure format • FeliCa™ - read only serial number (IDm). • CEPAS - Read CSN or CAN. • 14443A - read only CSN; MIFARE, DESFire® and Ultralight CSN • 14443B - read only CSN		
Certifications	UL/cUL (US), FCC Certification (US), IC (Canada), CE (EU), C-tick (Australia, New Zealand), SRRC (China), MIC (Korea), NCC (Taiwan), iDA (Singapore), RoHS							
Housing Material	UL94 Polycarbonate							
Warranty	Warrantied against defects in materials and workmanship for life. (See complete warranty policy for details.)							

*Consult How to Order Guide for specific ordering instructions.

**Dependent upon installation conditions.

***Add 25mA to AVG current when multiCLASS™ reader is populated with HID Prox module, add 40mA to AVG current when multiCLASS reader is populated with Indala Prox module.

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ACCESS experience.

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