SQUARE SLIMLINE READER (MULTI-TECH/NFC)

BAC029005

The BadgePass Square SlimLine reader is a design-oriented multi-technology reader. This reader for physical access applications is one of the flattest readers on the market. It supports up-to-date interfaces and protocols, like RS-485 and OSDP, but also Wiegand. The IP65 protected housing is made of high-class materials that confer the reader a unique look and feel.

This reader supports a broad range of HF and LF contactless technologies. Many mobile use cases can be facilitated with its NFC and BLE functions, like authentication and data communication.

SPECIAL FEATURES:

- Appealing flat design with premium look and feel, different colors for perfect architectural integration
- Easy installation with in-wall flush-mount boxes or on-wall mounting frame
- Supports LEGIC Connect thanks to integrated LEGIC frontend chip
- Water and dust protected, IP65 potted housing
- Interfaces: RS-485, OSDP protocol or Wiegand
- Dimmable LEDs, available with or without additional function key and backlit keypad
- Proximity sensor, ambient light sensor, tamper switch
- Versatile remote update and configuration features
- Mobile app for device parameter configuration via contactless NFC

HARDWARE SPECIFICATIONS:

FREQUENCIES

- 125 kHz (LF) / 13.56 MHz (HF) / 2.4 GHz (BLE)

ANTENNAS

- Integrated

HOUSING

- Metal frame and glass front, potted housing
- Available in 2 colors (silver or gray)

DIMENSIONS (L X W X H)

Reader frame only (mounted):
- approx. 123.00 x 86.00 x 8.25 mm / 4.84 x 3.38 x 0.32 inch

Rear connector height:
- approx. 8.00 mm / 0.31 inch

Reader with rear connector:
- approx. 123.00 x 86.00 x 15.90 mm / 4.84 x 3.38 x 0.62 inch

Optional mounting frame:
- approx. 123.00 x 86.00 x 9.75 mm / 4.84 x 3.38 x 0.38 inch

POWER

- Connector X1: 6.0 V – 28 V
- (10.0 V – 28 V for installations in a UL-certified environment1))
- ES1/PS2 classified power source according to IEC 62368-1, short-circuit current < 3.5 A

CURRENT CONSUMPTION

- Max. 300 mA @ 6.0 V

TEMPERATURE RANGE

- Operating: -20 °C up to +60 °C (-4 °F up to +140 °F)
- Storage: -20 °C up to +70 °C (-4 °F up to +158 °F)

RELATIVE HUMIDITY

- Mounted front: IP65 protected housing
- Transport/Storage: 5% to 95% non-condensing

READ / WRITE DISTANCE

- LF and HF: up to 80 mm / 3.15 inch, depending on environment and transponder
- BLE: up to several meters/feet

WEIGHT

Reader, potted, with connectors and mounting plate:
- approx. 150 g / 5.29 oz CE certified

WIRE CONNECTORS

- X1, 4-pin: RS-485 and power supply
- X2: 6-pin: Wiegand
- X1, X2: Plug-in connection terminal blocks, screw fastening of wires for wires 0.2 to 1.0 mm^2 (for installation in a UL-certified environment1), the minimum permissible wire size to be used shall not be less than 26 AWG (0.13 mm2))
- X3: 4-pin USB connector: 1.25 mm pitch, for maintenance and configuration purposes only

SIGNALING

- 2 LED areas: upper left RGB, upper right white; LEDs dimmable
- LED brightness controllable via proximity and ambient light sensors

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HARDWARE SPECIFICATIONS (CONT'D):

KEYPAD

- Reader optionally available with backlit keypad with touch function (0 to 9, * and #), white LEDs, individually dimmable, LED brightness controllable via proximity and ambient light sensors

PERIPHERAL INTERFACES

- RS-485, output 5V
- Wiegand (D0/D1) with up to three additional input lines (IN1, IN2, IN3)

ORDER CODES

Reader models with keypad:
- T4SW-DG10NDSW7-XXXX1): reader with silver frame/white glass front
- T4SW-DG10NDGY7-XXXX1): reader with gray frame/gray glass front

Reader models without keypad:
- T4SW-DG00NDSW7-XXXX1): reader with silver frame/white glass front
- T4SW-DG00NDGY7-XXXX1): reader with gray frame/gray glass front

1)XXXX is a placeholder for customer-specific order codes

ACCESSORIES:

MOUNTING FRAME

- T4SA-GWF1SW: mounting frame, silver
- T4SA-GWF1GY: mounting frame, gray

USB CABLES

- CAB-J4FSBAMSB150: maintenance and configuration cable

SECO APP

- Seco App, available in Google Play for Android NFC devices

CONNECTOR ASSIGNMENT:

POWER SUPPLY

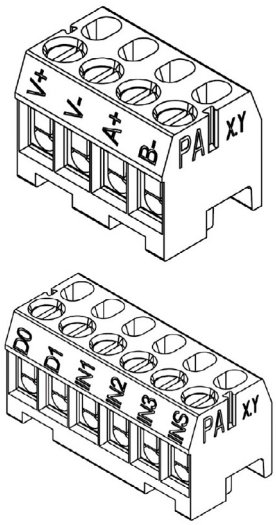
- V+ Input voltage 6 – 28 V*
- V- Ground

DATA TRANSFER*

- A+ RS-485, cable length: max. 1000 m
- B- RS-485, cable length: max. 1000 m
- D0 Wiegand D0, cable length: max 150 m
- D1 Wiegand D1, cable length: max 150 m
- IN1 Digital input 1, cable length: max 150 m
- IN2 Digital input 2, cable length: max 150 m
- IN3 Digital input 3, cable length: max 150 m

MAINTENANCE / CONFIGURATION

- USB 4-pin USB connector, 1.25 mm pitch (for maintenance and configuration purposes only)



Typical installation cables are JY(ST)Y 4x2x0.6 or JY(ST)Y 4x2x0.8.

* Installation in a UL-certified environment1): Please observe the input voltage of 10 – 28 V and the max. cable length of 30 m. In addition, the minimum permissible wire size to be used shall not be less than 23 AWG (0.28 mm2).

Alternatively, any other appropriate cables that meet the prerequisites of RS-485 installations and wirings can be used.

1)UL certification pending

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