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ELATEC

# ELATEC TWN4 Secustos SG30 Multi Frequency Access Control Reader

TWN4 Secustos is a design-oriented multi-technology reader family. 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.
TWN4 Secustos SG30 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

## TECHNICAL DATA

| TECHNICAL DATA | |
|---|---|
| FREQUENCIES | 125 kHz (LF) / 13.56 MHz (HF) / 2.4 GHz (BLE) |
| ANTENNAS | Integrated |
| HOUSING | Metal frame and glass front, potted housing<br><br>Available in 2 colors (silver or gray) |

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| DIMENSIONS (L X W X H) | Reader frame only (mounted):<br>approx. 123.00 x 86.00 x 8.25 mm / 4.84 x 3.38 x 0.32 inch<br>Rear connector height:<br>approx. 8.00 mm / 0.31 inch Reader with rear connector:<br>approx. 123.00 x 86.00 x 15.90 mm / 4.84 x 3.38 x 0.62 inch<br>Optional mounting frame:<br>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<br>(10.0 V – 28 V for installations in a UL-certified environment)<br>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)<br>Storage: -20 °C up to +70 °C (-4 °F up to +158 °F) |
| RELATIVE HUMIDITY | Mounted front: IP65 protected housing<br>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<br>BLE: up to several meters/feet |
| WEIGHT | Reader, potted, with connectors and mounting plate: approx. 150 g / 5.29 oz |

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| SABOTAGE DETECTION | Tamper switch |
| WIRE CONNECTORS | X1, 4-pin: RS-485 and power supply X2: 6-pin: Wiegand<br><br>X1, X2: Plug-in connection terminal blocks, screw fastening of wires for wires 0.2 to 1.0 mm² (for installation in a UL-certified environment, the minimum permissible wire size to be used shall not be less than 26 AWG (0.13 mm2))<br><br>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<br><br>LED brightness controllable via proximity and ambient light sensors |
| 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<br><br>Wiegand (D0/D1) with up to three additional input lines (IN1, IN2, IN3) |
| PROTOCOLS | OSDP v2.2 |
| TRANSMISSION SPEED | HF Air: up to 848 kbit/s, BLE Air: up to 100 kbit/s, Host RS-485: up to 38,400 baud |
| CERTIFICATION NAME | TWN4 Secustos SG30 |

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|---|---|
| CERTIFICATIONS | Non-exhaustive list1):<br><br>CE/RED, FCC, IC, UL listed, TAA compliant, REACH and RoHS-III compliant |

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| ORDER CODES | Reader models with keypad<br>T4SW-DG10NDSW7-XXXX1): reader with silver frame/white glass front T4SW-DG00NDGY7-XXXX1): reader with gray frame/gray glass frontReader models without keypad<br>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**

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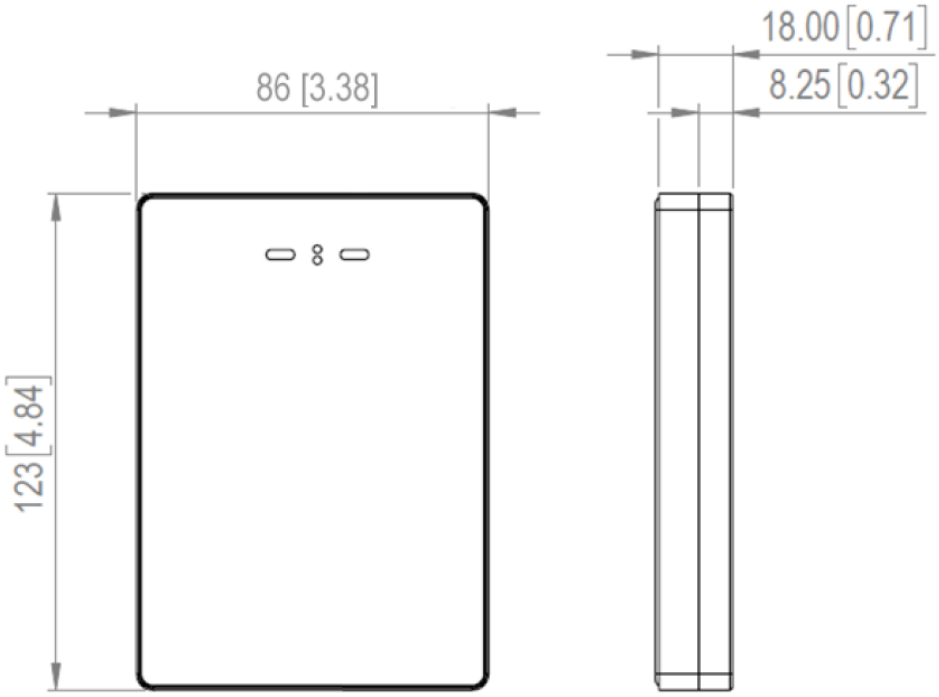
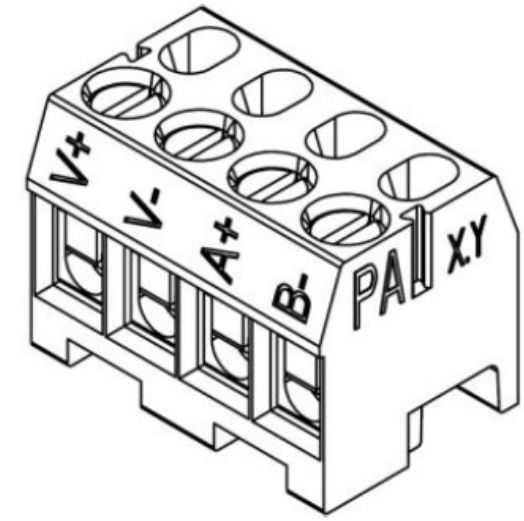
|---|---|
| MOUNTING FRAME | T4SA-GWF1SW: mounting frame, silver<br><br>T4SA-GWF1GY: mounting frame, gray |
| USB CABLES | CAB-J4FSBAMSB150: maintenance and configuration cable |
| SECO APP | Seco App, available in Google Play for Android NFC devices |

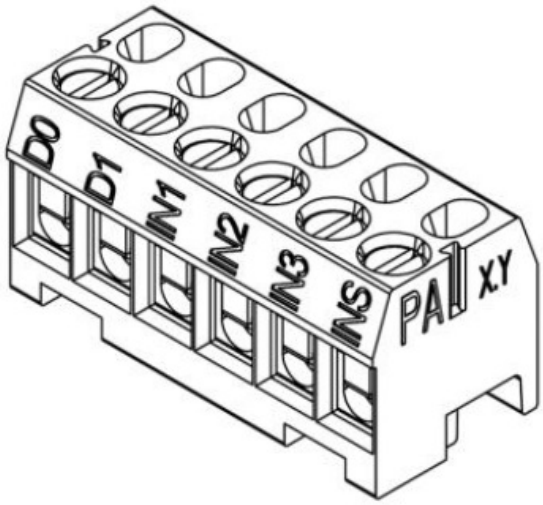
## TECHNICAL DRAWINGS




All measures in mm [inch]

## CONNECTOR ASSIGNMENT



**Power supply**

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|---|---|
| V+ | Input voltage 6 – 28 V1) |
| V- | Ground |

**Data transfer1)**

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|---|---|
| A+ | RS-485, cable length: max. 1000 m |
| B- | RS-485, cable length: max. 1000 m |
| D0 | Wiegand D0, cable length: max 200 m |
| D1 | Wiegand D1, cable length: max 200 m |
| IN1 | Digital input 1, cable length: max 200 m |
| IN2 | Digital input 2, cable length: max 200 m |
| IN3 | Digital input 3, cable length: max 200 m |
| INS | Digital input S (for external Sabotage switch), optional if sabotage button is not available on the reader, cable length: max 200 m |
| Cable routing requirements: twisted pair cabling (D0/GND, D1/GND). Refer to the use r manual of the TWN4 Secustos family for detailed information about cabling and dimensions. | |

**Maintenance / Configuration**

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

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

1. Installation in a UL-certified environment: 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.


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### FAQ

- **Q: What are the cable length limits for different connections?**
  A: RS-485 cables can be up to 1000 meters long, Wiegand cables up to 200 meters, and digital inputs up to 200 meters each.
- **Q: How can I order additional accessories?**
  A: Contact the manufacturer via email at info-rfid@elatec.com or visit their website at elatec.com for more information on ordering accessories.

# Documents / Resources

| | |
|---|---|
|  | ELATEC TWN4 Secustos SG30 Multi Frequency Access Control Reader [pdf] Owner's Manual<br>TWN4F31, WP5TWN4F31, TWN4 Secustos SG30 Multi Frequency Access Control Reader, TWN4 Secustos SG30, Multi Frequency Access Control Reader, Access Control Reader, Control Reader, Reader |

### References

- User Manual

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Access Control Reader, Control Reader, ELATEC, Multi Frequency Access Control Reader, Reader, TWN4 Secustos SG30, TWN4 Secustos SG30 Multi Frequency Access Control Reader, TWN4F31, WP5TWN4F31

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