

Secustos SQ80 K LEGIC

Multi-frequency access control reader



(exemplary illustrations)

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.

Secustos SQ80 K LEGIC 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
- + Additional function key, backlit keypad, dimmable LEDs
- + Proximity sensor, ambient light sensor, tamper switch
- + Versatile remote update and configuration features
- + Mobile app for device parameter configuration via contactless NFC



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)
	Reader frame only (mounted):
	approx. 86.00 x 86.00 x 8.25 mm / 3.38 x 3.38 x 0.33 inch
	Rear connector height:
	approx. 8.00 mm / 0.31 inch
DIMENSIONS (L X W X H)	Reader with rear connector:
	approx. 86.00 x 86.00 x 15.90 mm / 3.38 x 3.38 x 0.62 inch
	Optional mounting frame:
	approx. 86.00 x 86.00 x 9.75 mm / 3.38 x 3.38 x 0.38 inch
	Connector X1: 6.0 V – 28 V
POWER	(10.0 V – 28 V for installations in a UL-certified environment)
	ES1/PS2 classified power source according to IEC 62368-1, short-circuit current < 3.5 A
CURRENT CONSUMPTION	Max. 300 mA @ 6.0 V
	Operating: -20 °C up to +60 °C (-4 °F up to +140 °F)
TEMPERATURE RANGE	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
	LF and HF: up to 80 mm / 3.15 inch, depending on environment and transponder
READ / WRITE DISTANCE	BLE: up to several meters/feet
WEIGHT	Reader, potted, with connectors and mounting plate:
	approx. 113 g / 3.99 oz
SABOTAGE DETECTION	Tamper switch
	X1, 4-pin: RS-485 and power supply
	X2: 6-pin: Wiegand
	X1, X2: Plug-in connection terminal blocks, screw fastening of wires
WIRE CONNECTORS	for wires 0.2 to 1.0 mm ² (for installation in a UL-certified environment, the minimum
	permissible wire size to be used shall not be less than 26 AWG (0.13 mm ²))
	X3: 4-pin USB connector: 1.25 mm pitch, for maintenance and configuration purposes only
	2 LED areas: upper left RGB, upper right white; LEDs dimmable
SIGNALING	LED brightness controllable via proximity and ambient light sensors
	Backlit keypad with touch function (0 to 9, * and #)
KEYPAD	Programmable function key
	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)
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	Secustos SQ80 K LEGIC
CERTIFICATIONS	Non-exhaustive list ¹⁾ :
	CE/RED, FCC, IC, UL listed, TAA compliant, Apple Access certified, REACH and RoHS-III
	compliant

¹⁾The product has been certified for use in many countries and regions. Contact your Sales representative for detailed information about all certifications and approvals granted to the product.

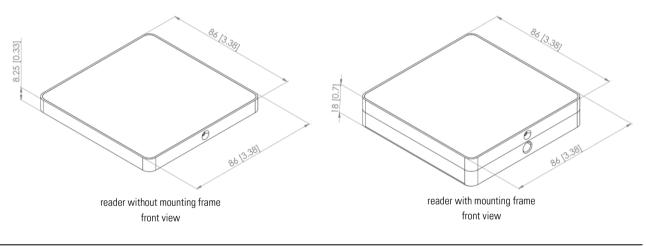


	T4SW-DQ10NDSW7-OSEU ¹⁾ : Reader with silver frame/white glass front T4SW-DQ10NDGY7-OSEU ¹⁾ : Reader with gray frame/gray glass front
ORDER CODES	
	T4SW-DQ10NDSW7-OSUS ²⁾ : Reader with silver frame/white glass front
	T4SW-DQ10NDGY7-OSUS ²⁾ : Reader with gray frame/gray glass front
¹⁾ Not available in countries/regions subject to FCC or IC approval.	

²⁾Only available in countries/regions subject to FCC or IC approval.

MOUNTING FRAME	T4SA-QWF1SL: mounting frame, silver
	T4SA-QWF1GY: mounting frame, gray
MOUNTING PLATE SET	T4SA-QMPUS1: mounting set with two metal plates and fixing screws
USB CABLES	CAB-J4MSBAMSB150: configuration cable, for OSEU reader versions
USB CABLES	CAB-J4FSBAMSB150: configuration cable, for OSUS reader versions
SECO APP	Seco App, available in Google Play for Android NFC devices

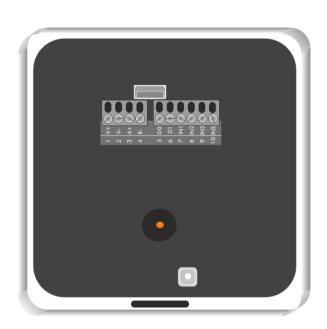
TECHNICAL DRAWINGS



All measures in mm [inch]



CONNECTOR ASSIGNMENT



V+	Input voltage 6 – 28 V ¹⁾
V-	Ground
Data tr	ansfer ¹⁾
A+	RS-485, cable length: max. 1000 m
B-	RS-485, cable length: max. 1000 m
DO	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 <u>S</u> abotage switch),
	optional if sabotage button is not available on the
	reader, cable length: max 200 m
Cable ro	uting requirements: twisted pair cabling (D0/GND, D1/GND). Refer
to the Se	ecustos manual for detailed information about cabling and
dimensio	ons.

Maintenance / Configuration

Power supply

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.

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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