

Secustos SQ80 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 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
- + Dimmable LEDs
- + Proximity sensor, ambient light sensor, tamper switch
- + Versatile remote update and configuration features
- Mobile app for device parameter configuration via contactless NFC



TECHNICAL DATA

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:
DIMENIOLONIO (L. V. M. V. LI)	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
TEMPERATURE RANGE	Operating: -20 °C up to +60 °C (-4 °F up to +140 °F)
TEIVII EIIV TOTLE TIV TIVOE	Storage: -20 °C up to +70 °C (-4 °F up to +158 °F)
RELATIVE HUMIDITY	Mounted front: IP65 protected housing
TIED (TIVE HOWIDIT)	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
TIE/O/ WHITE DIGITATOE	BLE: up to several meters/feet
WEIGHT	Reader, potted, with connectors and mounting plate:
VVLIGITI	approx. 113 g / 3.99 oz
SABOTAGE DETECTION	Tamper switch
	X1, 4-pin: RS-485 and power supply
	X2: 6-pin: Wiegand
WIRE CONNECTORS	X1, X2: Plug-in connection terminal blocks, screw fastening of wires
WINE CONNECTORS	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))
	X3: 4-pin USB connector: 1.25 mm pitch, for maintenance and configuration purposes only
CICNIALING	2 LED areas: upper left RGB, upper right white; LEDs dimmable
SIGNALING	LED brightness controllable via proximity and ambient light sensors
	RS-485, output 5V
PERIPHERAL INTERFACES	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 SO80 LEGIC
CERTIFICATIONS	Non-exhaustive list ¹⁾ :
	CE/RED, FCC, IC, UL listed, TAA compliant, 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.



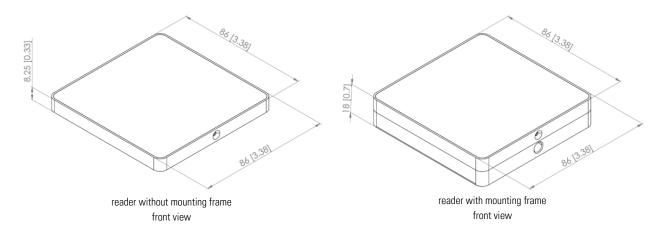
	T4SW-D000NDSW7-OSEU ¹⁾ : Reader with silver frame/white glass front T4SW-D000NDGY7-OSEU ¹⁾ : Reader with gray frame/gray glass front
ORDER CODES	3 / 3 / 3
	T4SW-DQ00NDSW7-OSUS ² : Reader with silver frame/white glass front
	T4SW-D000NDGY7-OSUS ²⁾ : Reader with gray frame/gray glass front

¹⁾Not available in countries/regions subject to FCC or IC approval.

ACCESSORIES

MOUNTING FRAME	T4SA-QWF1SL: mounting frame, silver
MOUNTING FRAIVIE	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]

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



CONNECTOR ASSIGNMENT



Power supply	
V+	Input voltage 6 – 28 V ¹⁾
V-	Ground

Data transfer ¹⁾	
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 <u>S</u> abotage switch),
	optional if sabotage button is not available on the
	reader, cable length: max 200 m

Cable routing requirements: twisted pair cabling (DO/GND, D1/GND). Refer to the Secustos manual for detailed information about cabling and dimensions.

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.

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.

Manufactured by: sesamsec GmbH

Finsterbachstrasse 1 • 86504 Merching • Germany sesamsec.com

an ELATEC Group company



ELATEC technical support: support-rfid@elatec.com
ELATEC customer service: info-rfid@elatec.com

sesamsec reserves the right to change any information or data in this document without prior notice. sesamsec declines all responsibility for the use of this product with any other specification but the one mentioned above. Any additional requirement for a specific customer application has to be validated by the customer themselves at their own responsibility. Where application information is given, it is only advisory and does not form part of the specification. Disclaimer: All names used in this document are registered trademarks of their respective owners.