

Secustos MU20 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 MU20 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, 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



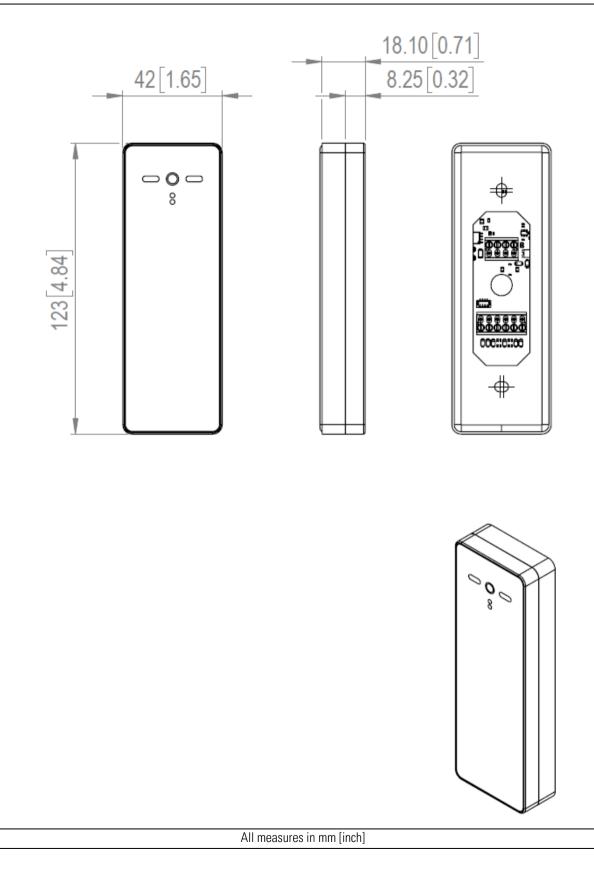
TECHNICAL DATA				
FREQUENCIES	125 kHz (LF) / 13.56 MHz (HF) / 2.4 GHz (BLE)			
ANTENNAS	Integrated			
HOUSING	Metal frame and glass front, potted housing			
	Available in 2 colors (silver or gray)			
DIMENSIONS (L X W X H)	Reader frame only (mounted):			
	approx. 123.00 x 42.00 x 8.25 mm / 4.84 x 1.65 x 0.32 inch			
	Rear connector height:			
	approx. 8.00 mm / 0.31 inch			
	Reader with rear connector:			
	approx. 123.00 x 42.00 x 15.90 mm / 4.84 x 1.65 x 0.62 inch			
	Optional mounting frame:			
	approx. 123.00 x 42.00 x 9.85 mm / 4.84 x 1.65 x 0.39 inch			
POWER	Connector X1: $6.0 V - 28 V$			
	(10.0 V - 28 V for installations in a UL-certified environment)			
CURRENT CONSUMPTION	ES1/PS2 classified power source according to IEC 62368-1, short-circuit current < 3.5 A 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			
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. 87.50 g / 3.09 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			
	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			
SIGNALING	2 LED areas: upper left RGB, upper right white; LEDs dimmable			
	LED brightness controllable via proximity and ambient light sensors			
KEYPAD	Reader optionally available with backlit keypad with touch function (0 to 9, * and #),			
	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 MU20 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.



	Reader models with keypad		
	T4SW-DL10NDSW7-OSEU: Reader with silver frame/white glass front		
	T4SW-DL10NDGY7-OSEU: Reader with gray frame/gray glass front		
ORDER CODES			
	Reader models without keypad		
	T4SW-DL00NDSW7-OSEU: Reader with silver frame/white glass front		
	T4SW-DL00NDGY7-OSEU: Reader with gray frame/gray glass front		
ACCESSORIES			
MOUNTING FRAME	T4SA-LWF1SL: mounting frame, silver		
	T4SA-LWF1GY: 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 $6 - 28 V^{1)}$	
	V-	Ground	
	Data transfer ¹⁾		
	A+	RS-485, cable length: max. 1000 m	
	B-	RS-485, cable length: max. 1000 m	
₿ <u>}</u> < <	DO	Wiegand D0, cable length: max 200 m	
10000	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	
		Digital input S (for external <u>S</u> abotage switch), optional if	
	INS	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 Secustos manual		
	for detailed information about cabling and dimensions.		
	Meintenene (Ocufinantian		
	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.

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