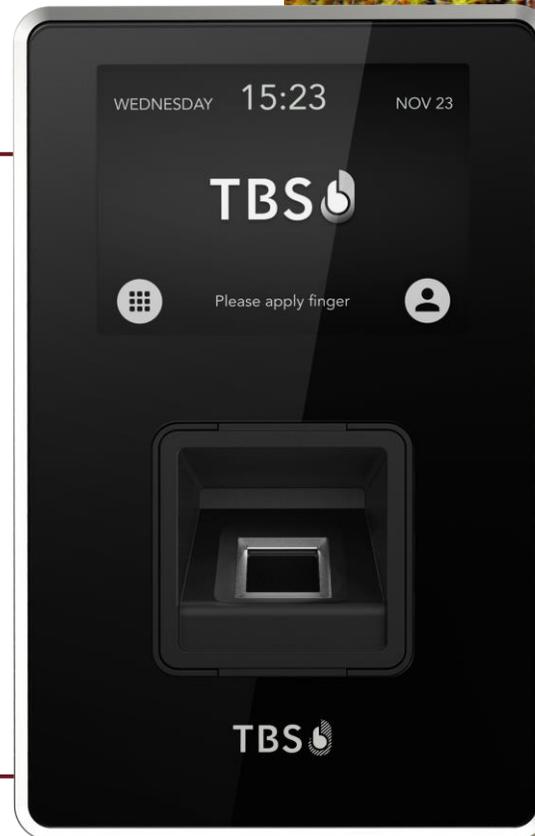
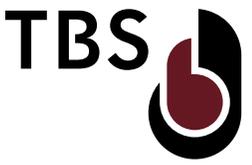


## 2D SENSE

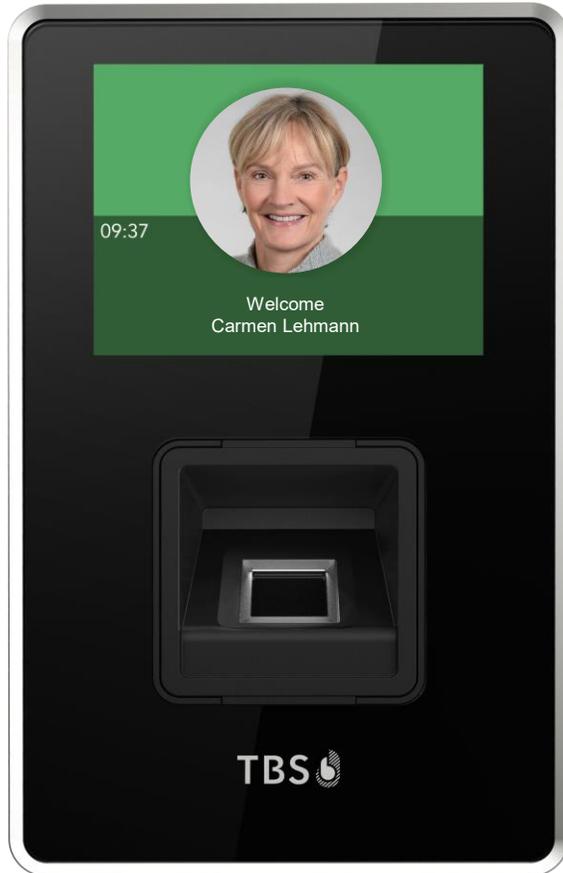


# 2D SENSE



2D SENSE is a compact, multi-functional touch terminal with an excellent recognition performance – designed and manufactured in Switzerland

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- (1) Capacitive touch sensor with in-built anti-spoofing protection
- (2) Good security level suited for medium-sized user groups
- (3) Up to 15'000 users
- (4) 3.5-inch color touchscreen
- (5) PIN Code, Mobile ID
- (6) Various RFID options
- (7) Verification using combined ID factors
- (8) Easy setup of Time & Attendance buttons
- (9) Versatile configuration and customizing (customer workflows, user interface)
- (10) Firmware extensions for finger-specific user actions like Alarm system control
- (11) Elegant design with flush mount option
- (12) Manufactured in Switzerland

## Enrollment Options:

- (1) on 2D SENSE using touchscreen
- (2) on 2D SENSE using remote control
- (3) on 2D ENROLL USB sensor



# DATASHEET 2D SENSE



## TECHNICAL SPECIFICATIONS

Category	Feature	Standard	Optional
<b>Biometric Sensor</b>	2D Fingerprint capacitive	•	
<b>ID Factors</b>	PIN	•	
	RFID		•
	TBS MobileID (Bluetooth)		•
<b>User Interface</b>	Touchscreen size	3.5"	
	Touchscreen Resolution	640 × 480	
	Loudspeaker	•	
<b>Biometrics</b>	Identification (1:N) database limit <sup>1</sup>	5'000	15'000
	FRR at FAR 1:100'000	< 2.0%	
<b>Communication</b>	LAN	•	
	Wifi and/or BLE		•
<b>Interfaces</b>	RS-485 (OSDP) or RS-232 (switch)	1	
	Wiegand out	1	
	Relay (NO/NC/COM, max. 60V/30W)	1	
	GPIN / GPOUT	3 / 1	
<b>Security</b>	Tamper Switch		•
<b>Installation</b>	Power supply rating	12 - 24 VDC	
	Max. power consumption	5 W	
	Operating temperature	-20 to 60 °C	
	Operating humidity	10 to 90%	
	Wall mount or Flush mount box	•	
<b>Certifications</b>	CE, FCC/IC, ISO 9001/14001	•	

## ACCESSORIES & FEATURES

### Hardware Extensions (optional):

- Integrated RFID reader  
HF: MIFARE Classic/DESFire, HID iCLASS, LEGIC  
LF: HID Prox, other formats on request
- TBS Door Controllers:  
CONTROLLER LITE (2 relays, 2 GPIN/GPOUT, via RS-485)  
CONTROLLER SMART+ (4 relays, 4 GPIN, 4 GPOUT, via RS-485 or LAN)

### Software Extensions (licensed):

- TBS MobileID: Power Package «Multi-Factor» required
- Extended Identification (1:N) limit with BIOMANAGER Premium Plan

### Installation Options:

- Wall mount PVC box (IP20) for indoor installations
- Flush mount PVC box (IP54) for indoors and outdoors.
- Direct sunlight must be avoided. Outdoor protection kit is mandatory.

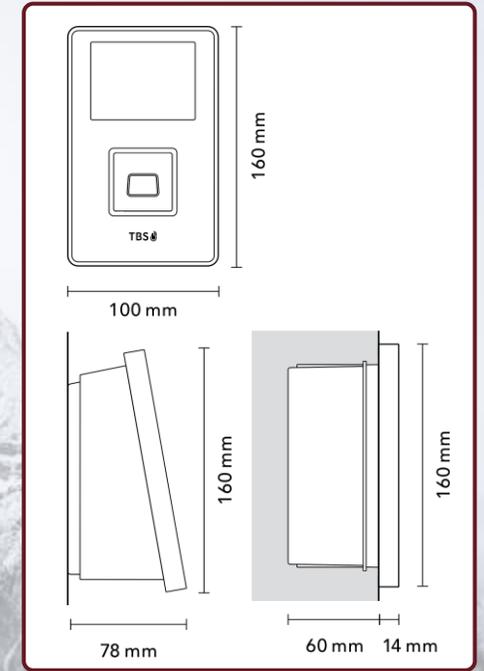
### TBS System Security:

- Multi-level data encryption, with option to define a custom Template Encryption Key
- Protected communication channels (SSL) with option to use custom SSL certificates

### Seamless Integration:

- Device connects to TBS BIOMANAGER Server hosted On-Premise or in the TBS Cloud
- Flexible integration options
  - REST APIs on system and device level available
  - Enrollment integration into 3rd party software supported

## DIMENSIONS



## CUSTOMIZING



# MORE THAN JUST A READER

## FIVE REASONS FOR YOUR CHOICE

### (1) EUROPEAN COMPETENCE YOU CAN TRUST

Swiss perfection, German thoroughness and Czech ingenuity - built on integrity and reliability.

### (2) TAILOR-MADE FOR DEMANDING CLIENTS

From the world's top-rated airport to the No.1 Department of Defence, TBS is the undisputed leader in bespoke solutions.

### (3) ALL-IN-ONE PLATFORM

We deliver the full spectrum: multiple biometric technologies on one powerful platform, integrated with all major security providers.

### (4) PARTNERSHIP BEYOND THE PROJECT

For us, winning a project is only the beginning. Long-term service & support is what truly separates the wheat from the chaff.

### (5) THE VALUE OF A QUALITY INVESTMENT

More performance & flexibility – less risk

LET'S GET TO WORK



TRUST BIOMETRICS  
SERVICES **COMPETENCE**  
SPECIALIST FLEXIBILITY QUALITY  
HOSPITALITY **TBS** TERMINALS  
TRUST BIOMANAGER  
TOP-REFERENCES SOFTWARE  
SWISS **QUALITY**  
DURABILITY RELIABILITY SERVICES LONGTERM  
TOUCHLESS SECURITY  
MANUFACTURER COMPETENCE

