

## WBox\_78KF reader units

The WBox type reader units are used for reading contactless cards and their construction makes them best for attendance applications. Ergonomically positioned controls together with a backlit screen allow the staff easy and well-arranged attendance registration. When it comes to running they can be autonomous or ON Line controlled with the ability to switch OFF Line in case communication problems appear. They are equipped with a MCS-51 microcomputer. These reader units offer a wide range of options not only for registration itself, but for employee awareness as well.



### Versions of WBox\_78KF reader unit

WIST010B.XX

.05	<b>WBox_78KF</b>	Integrated fingerprint scanning module
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### Technical parameters

<b>Fingerprint scanning control</b>	Acoustic and optical
<b>Working coverage</b>	IP 43 or IP65
<b>Power supply voltage/current</b>	9-18V DC / do 200mA
<b>Galvanic separation of feed</b>	bue
<b>Display</b>	active 2x16 characters
<b>Membrane keyboard*</b>	WBox_78K - 24 keys, slovak print
<b>Inputs*</b>	Door open or locked
<b>Outputs*</b>	2 switching contacts
<b>Communication interface*</b>	RS485 /TCP-IP/WiFi
<b>Galvanic separation of communication</b>	yes
<b>Allowed cards chart capacity</b>	5445 records (personal time zones), RAM 128 kB backed up by accumulator
<b>Time zones</b>	31 time zones defined as a set of 1-32 time intervals, days of validity according to the weekday or work calendar
<b>PIN code</b>	Option to verify 1-9 character PIN code, always / while EZS is activated / never
<b>Chart of passages capacity</b>	6556 records with overflow control, 128 kB RAM backed up by accumulator



<b>Technical parameters</b>	
<b>Time of passage</b>	Day, month, year, hour, minute, second
<b>Interruption codes</b>	4 groups (arrival or departure, arrival, departure, system reports, each can contain 16384 different interruption codes)
<b>System errors*</b>	EZS activation, cover removal, door locking, PIN input error, quiet alarm, passage without opening the door, unproper door closing, opening the door by the key....
<b>Passage without giving a reason, automatic arrival/departure switching</b>	Option of processing way – save/don't save the passage, open/close the door, set passage code, 8 switching times (hour, minute)
<b>ON Line control of the unit from PC</b>	Door unlocking, unit passage blocking
<b>Automatical door unlock</b>	8 time intervals of unlocked door (validity of the interval according to weekday or calendar, hour and minute of the beginning and end of interval)
<b>External reader head*</b>	LEGIC, MIFARE, HID, COTAG, TIRIS, KERI (WIEGAND 26)

\*optional

<b>Technical parameters of the fingerprint scanning module SFM3550</b>	
<b>CPU (processor)</b>	400 MHz DSP
<b>FLASH (memory size)</b>	4 MB
<b>ERR (equal error rate while scanning a fingerprint)</b>	<0,1%
<b>Enrollment time</b>	< 550 – 850 ms
<b>1:1 Verification time</b>	< 550 – 850 ms
<b>1:1000 Identification time</b>	< 680 – 990 ms
<b>Template size</b>	384 bytes
<b>Template capacity</b>	9000
<b>Template format</b>	ISO19794-2 standard
<b>Host communication</b>	RS232, RS422/RS485
<b>Wiegand interface</b>	1x input, 1x output
<b>Programable I/O</b>	3x LED, 3x input, 3x output
<b>Encryption</b>	AES
<b>Supply voltage</b>	5V
<b>Supply current – idle</b>	110 mA
<b>Supply current – scanning</b>	115 mA
<b>Supply current – idle (identification)</b>	140 mA
<b>Main board size</b>	63 x 43 x 10 mm
<b>Operating temperature</b>	0 – 70 °C



Technical parameters of the TCI sensor	
<b>Sensor type</b>	UPEK TCS1, capacitor
<b>Resolution</b>	508dpi
<b>Sensing area</b>	12,8 x 18 mm
<b>Image size</b>	256 x 360 pixels
<b>Sensor size</b>	27 x 20,4 x 3,5 mm
<b>Operating temperature</b>	-30 - +85 °C

## Dimensions



## Description of connectors



Connector	Meaning
<b>RELE 2.1</b>	Contact relay 2
<b>RELE 2.2</b>	Contact relay 2
<b>RELE 1.1</b>	Contact relay 1
<b>RELE 1.2</b>	Contact relay 2
<b>Uvst +</b>	Positive pole of power supply voltage
<b>Uvst -</b>	Negative pole of power supply voltage
<b>RS -</b>	RS 485 Bus - RS-
<b>RS +</b>	RS 785 Bus - RS+

