

ZKTeco SpeedFace Reader - SF1008+ & SF1005-V+

Overview

The SpeedFace reader can be used with Net2 to permit or deny access based on the user's temperature. When a temperature is detected outside of the set threshold the reader will notify the user that there is an abnormal temperature and deny access.

This application note will run through the following modes of operation:

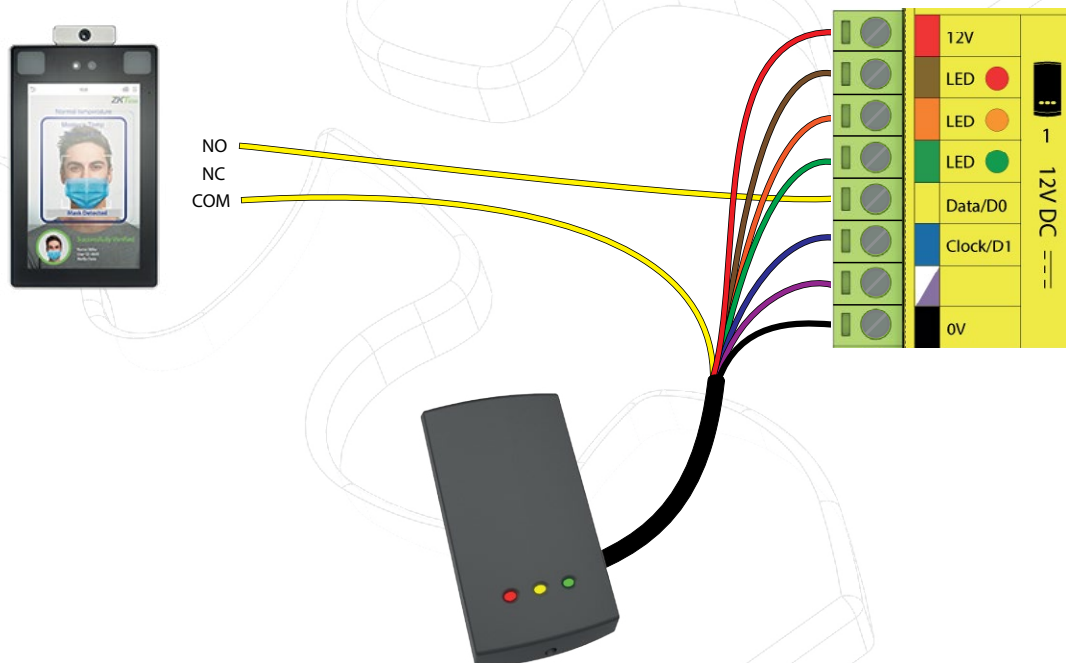
- Temp only
- Token (MIFARE® only) + Temp
- Face + Temp



Setting up Temp only mode

Out of the box, the SpeedFace reader will detect a face, determine the temperature and providing it is below the set threshold, permit access by firing the relay on the reader.

Using this method, the SpeedFace reader relay can be wired in line with a Paxton reader on the Yellow data port. This will prevent the Paxton reader from functioning until the user has passed the temperature check.



The default door lock delay on the SpeedFace reader is 5 seconds. To allow sufficient time for the user to present their token to the Paxton reader, you may wish to increase this via the menu on the SpeedFace reader.

*Allow unregistered access must be enabled in the SpeedFace reader for temperature only to work properly.

Setting up modes: Token + Temp & Face + Temp

Connecting the reader to a Net2 Plus controller

There are two other main modes of operation; Token + Temp and Face + Temp. In both cases the Speed-Face reader should be wired to the Net2 plus as shown in the diagram below:

ZKteco	ACU terminal
NOT USED	+12V
NOT USED	Red LED
NOT USED	Amber LED
NOT USED	Green LED
WD0	Wiegand D0
WD1	Wiegand D1
NOT USED	NOT USED
GND	0V



Ensure any unused wires are safely terminated.

Net2 ACU Settings

Configure the reader port settings for the ACU the reader has been connected to as shown in the screenshot below:

Reader 1	Reader 2	Alarm	Codes	Events	Fire alarm inputs	Intruder Alarm	Access rights
Reader details							
Name		ACU 05678910 (Out)					
Reader type		Wiegand reader					
Keypad type		None					
Token data format		Wiegand 26 bit					
Operating mode							
Reader operating mode		Token only					

ZKTeco SpeedFace Required Settings

Once you have wired up the reader and setup the reader in Net2, the SPEEDFACE reader will need to be configured. Using the instructions provided with the reader, update the following settings:

- Authentication type - should be set in the menu, select your desired operating mode (Temperature is activated in another menu) Access Control->Access Control Options->"Verification Mode"
- Temp settings - can be changed in the Temp menu. System->Detection Management->"Temperature over the range; access denied"
- Mask settings: System->Detection Management->"Enable mask detection" and "Deny access without mask"

*Users must be enrolled on both the SpeedFace reader, and in Net2. Additional users will need to be added separately in each system.

System limitations to note:

- Should both a user's face and temperature be authenticated, but then denied access based on time zone permissions on the Net2 system, there will be no notification on the panel
- High temperature events cannot be sent from the SPEEDFACE reader to Net2
- Temperature tolerance may need to be changed

Link to manufacturers website: <https://zktecousa.com/products/sf1008-plus-sf1005-v-plus/>



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