

BioSense

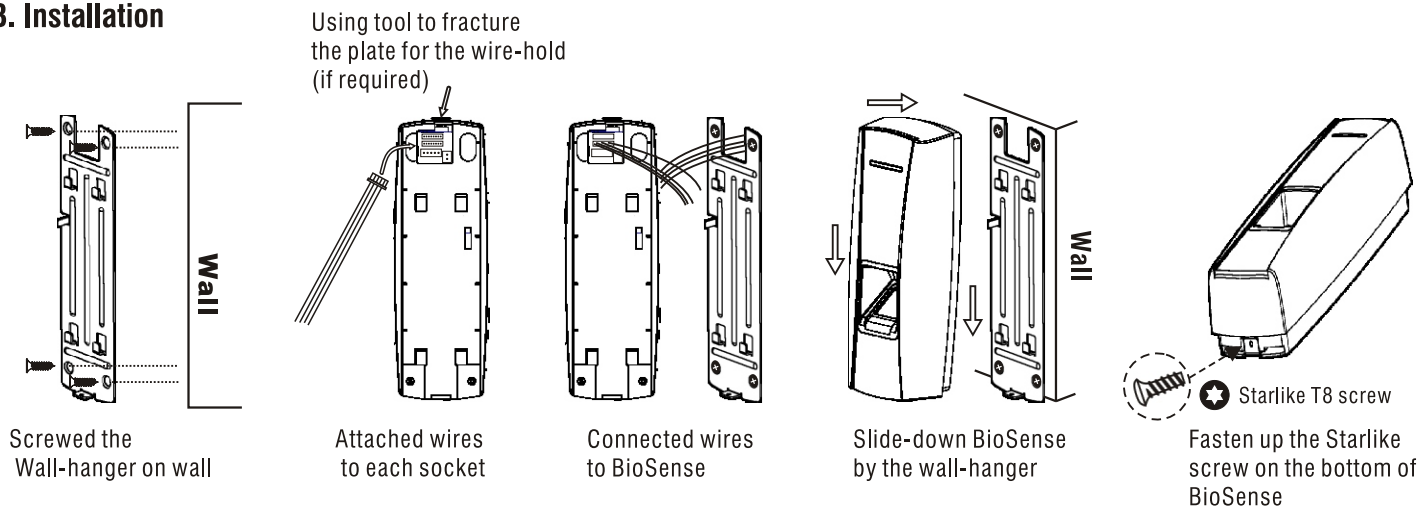
INSTALLATION HW 1.1

A. BioSense package contents

■ BioSense x1, Wall-hanger x1, Installation guide x1, L-shape screw driver x1, Accessories kit x1

Accessory kit : including Wall plug x4, Fasten screw x4, 1N4004 x 1
8-Pin wire x1, 9-Pin wire x1, 2-Pin wire x1, RJ-45 cable x1

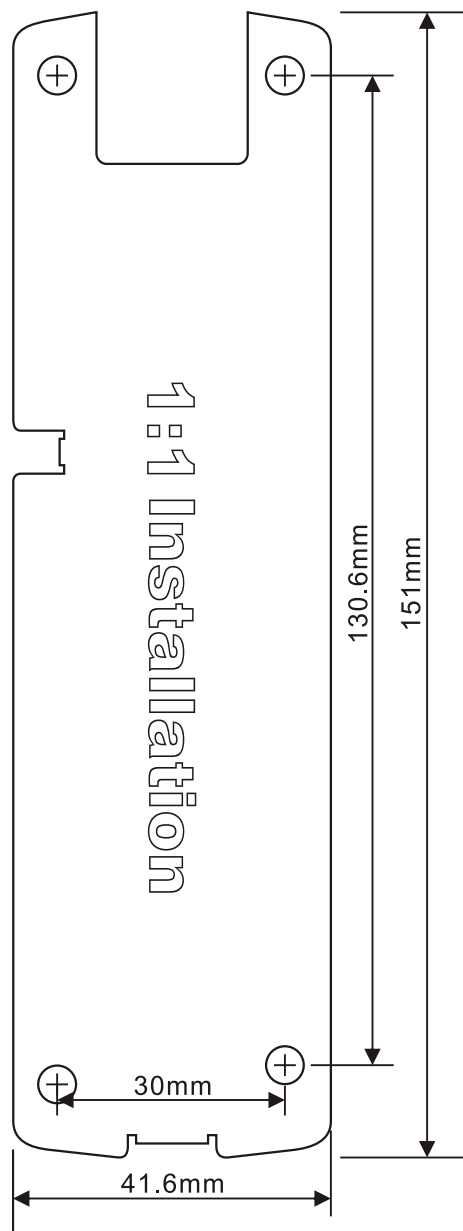
B. Installation



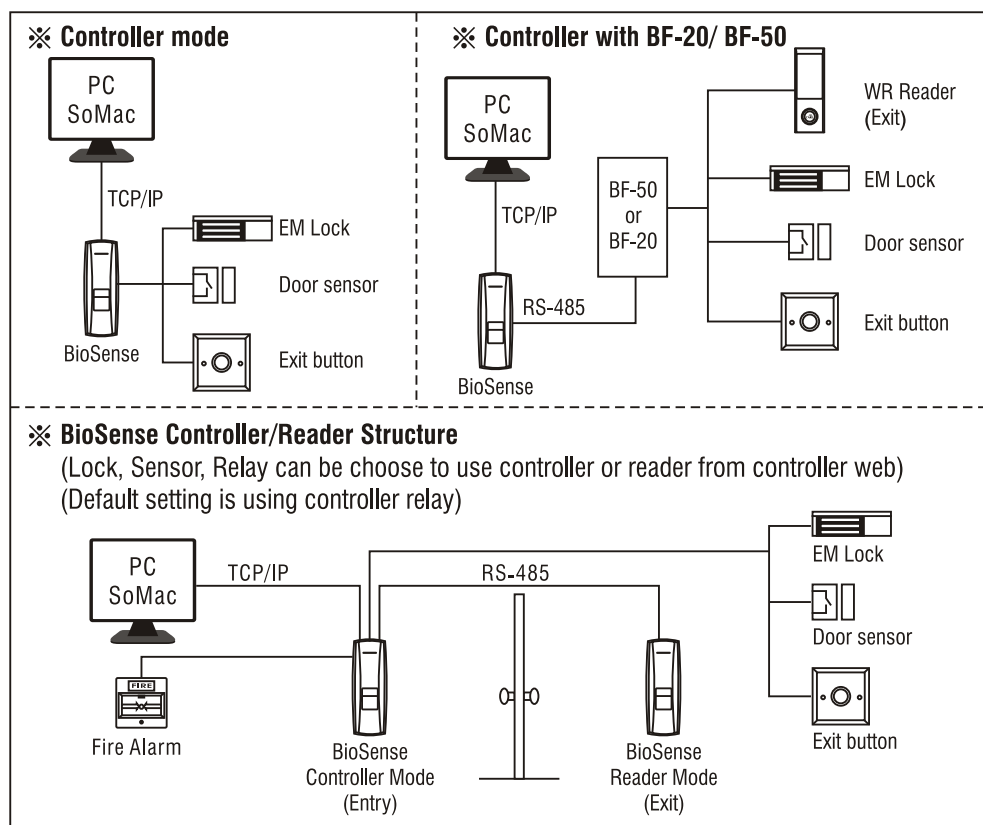
C. Specifications

- Dimension : 160 x 56.9 x 40.1 (mm)
- Wire : RVSP type is recommended for RS-485
 - Power consumption and current : DC 9~24V/ 1A
 - Wiegand communication : up to 80 meters
 - RS-485 communication : up to 1000 meters
 - RJ-45 communication : up to 100 meters
 - Built-in Relay Max Load Current : DC 40V/ 1A

D. Wall-hanger size

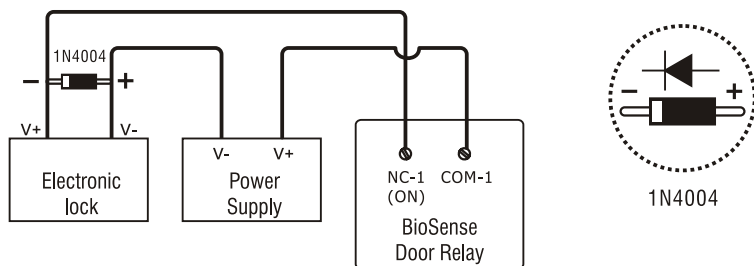


E. Structure

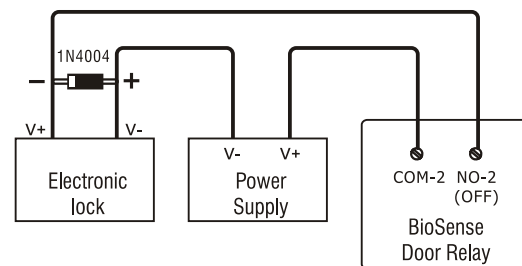


Door Relay Connection

• Fail-Safe Lock

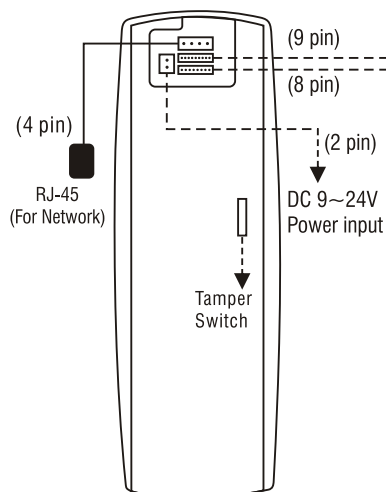


• Fail-Secure Lock



F. Wiring definition

※ Controller Mode



White	COM-1	Relay NC(Fail-Safe) Max Load Current : DC 40V/ 1A
Blue	NC-1	
Green	COM-2	Relay NO (Fail-Secure) Max Load Current : DC 40V/ 1A
Yellow	NO-2	
Orange	GND	
Violet	FIRE	Fire alarm(Door open)

Orange	GND	
Yellow/White	Exit button	
Blue/White	Sensor	
Red/White	WOD-0	
Black/White	WOD-1	Wiegand output

Based on lock types to select connecting relay COM-1 or COM-2

G. Wires Description

9 pin

COM-1	White	Relay NC Solid state relay Max Load Current : DC 40V/ 1A
NC-1	Blue	
COM-2	Green	Relay NO Solid state relay Max Load Current : DC 40V/ 1A
NO-2	Yellow	
GND	Orange	Ground
N/A	Violet/White	Keep
N/A	Green/White	Keep
OUTPUT	Yellow/Black	Reserved output (TTL 5V)
FIRE	Violet	Fire alarm input

4 pin

4 pin color	RJ-45 cable color
Black	Green
White	Green/White
Green	Orange
Red	Orange/White

2 pin

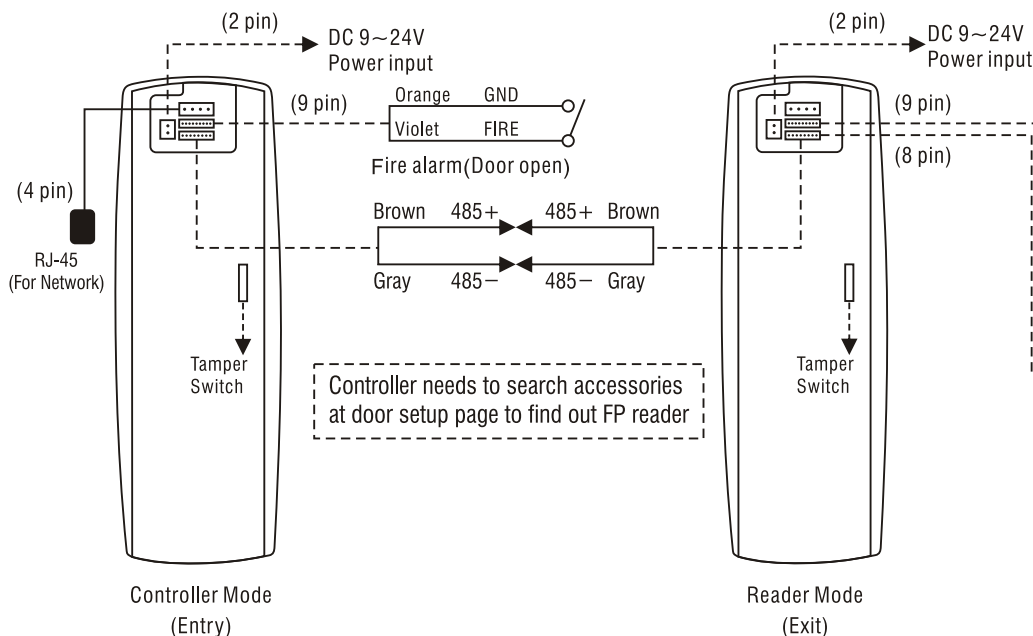
VIN-	Black	Power input
VIN+	Red	DC 9~24V(1A)

8 pin

485 -	Gray	RS-485 -
485 +	Brown	RS-485 +
FGND	Orange	RS-485 Ground
WOD-0	Red/White	Wiegand Output
WOD-1	Black/White	
GND	Orange	Ground
Button	Yellow/White	Button
Sensor	Blue/White	Sensor

Default is controller mode.
For reader mode, please go to Biosense web
(terminal setup) and change it.

※ Controller + Reader Mode (BioSense Controller/Reader Strcutre)



White	COM-1	Relay NC(Fail-Safe) Max Load Current : DC 40V/ 1A
Blue	NC-1	
Green	COM-2	Relay NO (Fail-Secure) Max Load Current : DC 40V/ 1A
Yellow	NO-2	

Orange	GND	
Yellow/White	Exit button	
Blue/White	Sensor	