

# Compact Digital Thermostat (FX3SE SERIES)



## PreCautions for Use

- This Product May cause an Electric Shock in handling, please do not attempt to open it with power turned on.
- This Product should be installed in a place fixed securely by a rack or panel.
- This Product can be used under the following environmental conditions.
  - Indoor
  - Pollution Degree 2
  - At an Altitude of 2000m or below
  - Installation Category II
- To turn on or turn off power supply for this product, please the Circuit Breaker or Switch of standard product of IEC 60947-1 or IEC 60947-3 product and install it within a close distance allowing convenient operation by user.
- Please be understood that if this product is dismantled or modified discretionary after sales service will not be able to be provided.
- An Output Wire to be used for this product should be Inflammable Grade FV1(V-1 grade or above), the thickness of the wire should be AWG No.15 or above.(1.5mm<sup>2</sup>)
- In order to prevent it from a noise, please maintain the high-voltage wire and power wire separated.
- Please avoid installing the product in a place where a strong magnetism, noise, severe vibration and impact exist.
- When extending the sense wire, use a shield wire and do not extend it unnecessarily long.
- The sensor wire and signal wire should be away from the power and load wires using conduits separately installed.
- Please avoid using the product near a device generating strong high frequency noise(High-frequency welding machine, High-frequency sewing machine, high-frequency radiotelegraph, High capacity SCR Controller).
- The rear of the controller should not come into contact with metallic object when mounting product on panel. (keep a safe distance(min. 3m) from metallic object)
- Product's damages other than those described in the guarantee conditions provided by the manufacturer shall not be responsible by us
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  - \* The aforementioned precautions must be observed, and if you fail to do so, it may cause a product's breakdown.

## Basic Specification

Model Name	FX3SE
Rated Voltage	100~240Vac, 50/60Hz
Power	MAX 4W
Connector	Screw Bolt Connector(1.5mm <sup>2</sup> Wire Use Possibility)
Input/output	Relay Output 1 Point (250VAC/5A, 10A, 16A), Temp. Sensor Input 1 Point
Operation	Temp. -10~50°C, Humidity Under 90%RH
Storage	Temp. -20~60°C, Humidity Under 90%RH
Sensor Specification	DOTECH Standard NTC Sensor DPR-TH01-AT5 5kΩ at 25°C, Range:-55 ~ 105°C, Accuracy:±0.3°C at 25°C

## Order Information

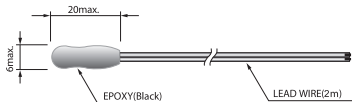
Model	Relay	Temp Display
FX3SE-05P00-C / F	5A	°C / °F
FX3SE-10P00-C / F	10A	°C / °F
FX3SE-16P00-C / F	16A	°C / °F

DPR-TH01-AT5-2M sensor is provided basically, and it is possible to purchase the required sensor separately

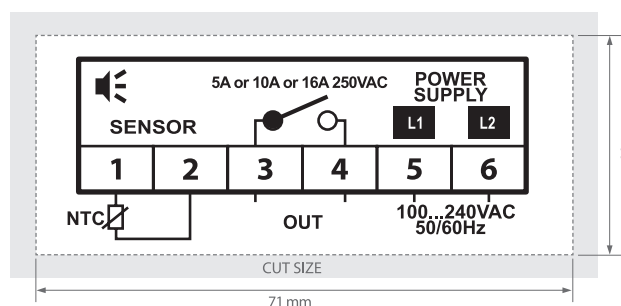
## Sensor Specifications / Temperature Sensor

### DPR-TH01-AT5

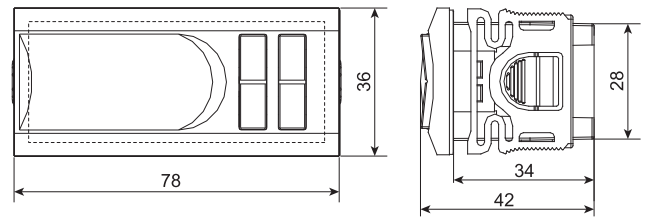
Sensor type : NTC 5KΩ  
Range : -55 ~ 105°C  
Accuracy : ±0.3°C at 25°C  
Sheath : Ø6 X 20mm  
Cable : 2C X 0.5mm, EPOXY(Black)



## Connection Diagram & Panel Cut-Out Form

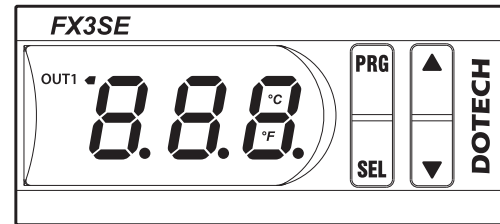


## Dimensions



UNIT : mm

## Constitution (Function of Display Lamp and Button)



OUT1	Turn on when output #1 is ON (Flickering at standby)		
°C or °F	°C : Display temperature values in Celsius °F : Display temperature values in Fahrenheit		
PRG	Use at program setup (3 sec push) Buzzer off	▲	Move between menus & Increase setup value
SEL	Execute selected menu or Input setup value (push for 3sec)	▼	Move between menus & Decrease setup value

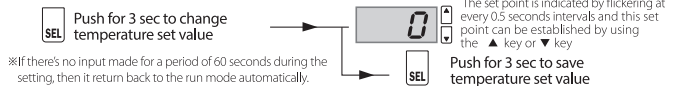
## Simple Trouble Check Point

oPn	In case of Input sensor open wire (Normal operation after sensor connecting)
SHt	In case of Input sensor short circuit
LLL	Lower sensor input than measuring range
HHH	Higher sensor input than measuring range

## Setting 1 Group Table

No	CODE	DESCRIPTION	UNIT	STEP	MIN	MAX	DEFAULT
1	Typ	Select Control Type	oFF(Display) C(Cooling) H(Heating)				C
2	dIF	Control deviation	°C	1	1	99	1
3	dLt	ON Delay Time	sec	1	0	999	5
4	UH	Max. Set Point	°C	1	UL	105	100
5	UL	Min. Set Point	°C	1	-55	UH	-50
6	bur	Buzzer Delay Time	sec	1	0	999	oFF
7	Cor	Sensor Correction	K	1	-99	99	0

## Temperature setting



## Program Setting

