Addressable Detector and Base

D250 series

(DBE Analog Detector for 250 address platform)

■ Products

These detectors are part of an addressable fire alarm system (MXK), which provides detailed information about the location of a fire incident. Each detector has a unique address and is wired into a loop around the building.
The control panel receives status reports from each device and can indicate the exact location of a fire, fault, or other issue.

Head		Base	
Heat detector Fixed Temperature	**Smoke Detector** Photo-electric	**SBase** Standard Base	**IBase** Isolator Base
D250H, D250HI **D250HW, D250HWI**	**D250P** **D250PI**	Apply to all detectors	Apply to addr. detector
Purple color DBE Log		108.7Ø * 14D	108.7Ø * 18D

■ Approvals & Certificates

| Product	KC Mark	KFI Type Approval
D250H (Heat Head + SBase)	R-REM-DBE-DAHD	감21-15
D250HW (Heat Wet-Free Head + SBase)	R-REM-DBE-DAHD	감21-49
D250P (Smoke Head + SBase)	R-REM-DBE-DASD	감21-16
D250PI (Smoke Head + IBase)	R-R-DBE-D250PI	감21-16
D250HI (Heat Head + IBase)	R-R-DBE-D250HI	감21-15
D250HWI (Heat Wet-free Head+ IBase)	R-R-DBE-D250HWI	감21-49

■ Key Features

- 1 pair shielded cable / non-polarized connection
- Red LED turn on when the fire is detected
- Red LED go in and out when communication is normal

■ D250H

Fixed temperature Addressable Heat detector – 250 Address platform

The addressable detector is for use in MXK addressable system which uses the DBE250 Protocol.

D250H is a fixed-temperature addressable/analog heat detector that converts continuously changing ambient temperature information into analog values and transmits them to the fire control panel using DBE250 protocol.

The presence or absence of fire is determined by the fire control panel according to the set fire operation information.

Based on the 250 address platform, the detector address is set to distinguish the installation location thereof, and individual fire operation levels can be set for each detector.

The ambient temperature information is displayed in step 126 in the fire control panel, and remote monitoring is possible through the table value.
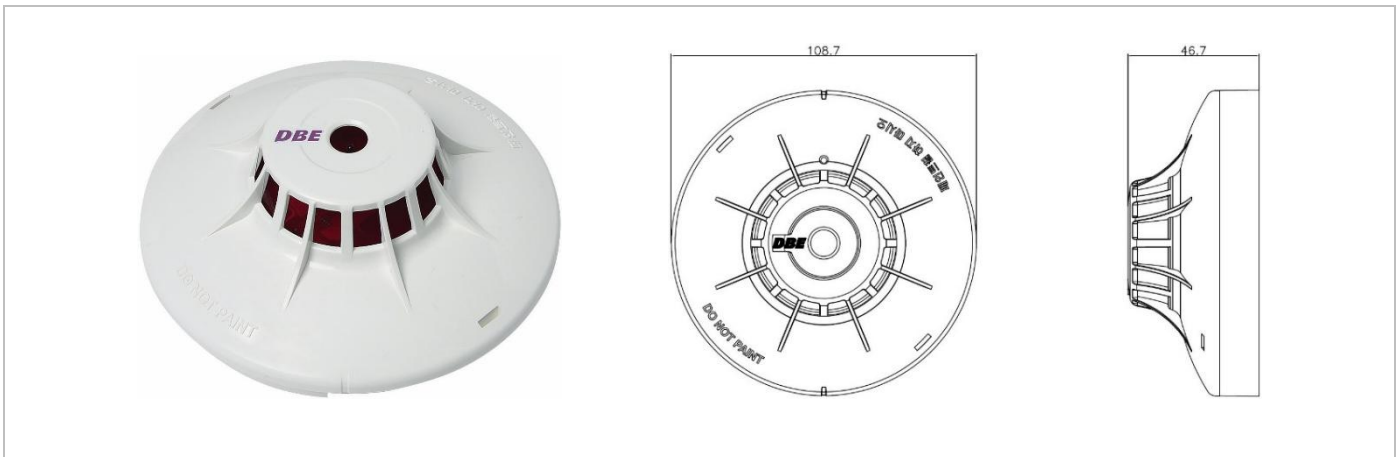
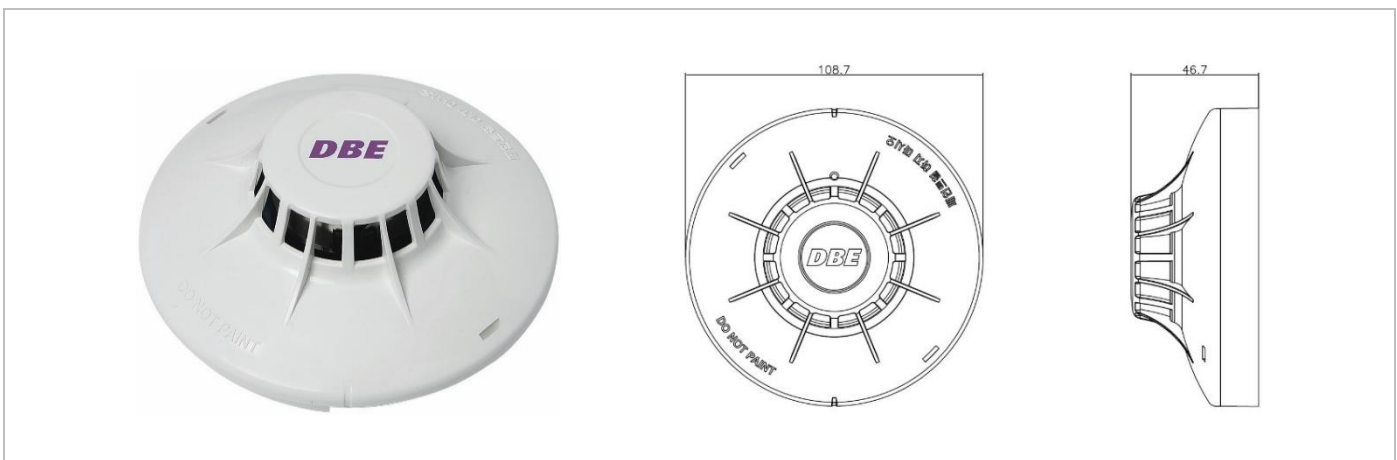| SKUs	Need to create new SKUs
Sensing Method	Detecting fixed temperature, triggering the sensor and activating the alarm
Rated Input Voltage	DC24V±20%
Normal current	850uA ±10%
Operating current	1.3mA ±10%
Indicator (RED LED)	Turning on when the fire is detecting
	Periodically flickering when the communication is normal
Address setting	DIP Switch (#001 ~ #250)
Detecting Range	30℃ ~ 90℃
Environment (Temperature/Humid)	-10℃ ~ 50℃ / 0% ~ 95%
Size (mm) / Weight (g)	108.7Ø x 46.7D / approx. 110 g including SBase
Material / Color	PC / White (Purple DBE Logo)

■ D250P

Photoelectric Addressable Smoke Detector – 250 Address platform

The addressable detector is for use in MXK addressable system which uses the DBE250 Protocol.
D250P is a photoelectric addressable/analog smoke detector that converts continuously changing ambient smoke concentration information into analog values and transmits them to the fire control panel using DBE250 protocol.
The presence or absence of fire is determined by the fire control panel according to the set fire operation information.
Based on the 250 address platform, the detector address is set to distinguish the installation location thereof, and individual fire operation levels can be set for each detector.
The ambient temperature information is displayed in step 126 in the fire control panel, and remote monitoring is possible through the table value.

| SKUs	Need to create new SKUs
Sensing Method	Detecting the light scattered by smoke particles, triggering the sensor and activating the alarm
Rated Input Voltage	24VDC
Normal current	950uA ±10%
Operating current	1.4mA ±10%
Indicator (RED LED)	Turning on when the fire is detecting
	Periodically flickering when the communication is normal
Address setting	DIP Switch (#001 ~ #250)
Detecting Range	3% ~ 15% (obsc/m)
Environment (Temperature/Humid)	-10℃ ~ 50℃ / 0% ~ 95%
Size (mm) / Weight (g)	108.7Ø x 46.7D / approx. 110 g including SBase
Material / Color	Polycarbonate / White (Purple DBE Logo)

■ Reference Table

D250H		
Nominal Sensing Temperature Range		
Temperature	Range	Value displayed on the panel
30℃	27.5 ~ 32.5℃	27 ~ 32
40℃	34.0 ~ 46.0℃	34 ~ 46
50℃	42.5 ~ 57.5℃	42 ~ 57
60℃	51.0 ~ 69.0℃	51 ~ 69
70℃	60.0 ~ 80.0℃	60 ~ 80
80℃	70.0 ~ 90.0℃	70 ~ 90
90℃	80.0 ~ 100.0℃	80 ~ 100

D250P		
Nominal Sensing Smoke Concentration Range		
Smoke concentration	Range	Value displayed on the panel
3%	1.00 ~ 5.00%	26 ~ 48
6%	3.10 ~ 8.90%	37 ~ 69
9%	5.65 ~ 12.35%	51 ~ 87
12%	8.20 ~ 15.80%	65 ~ 104
15%	10.75 ~ 19.25%	78 ~ 122

■ Base Connection

● BUS Type

IBase   SBase   IBase
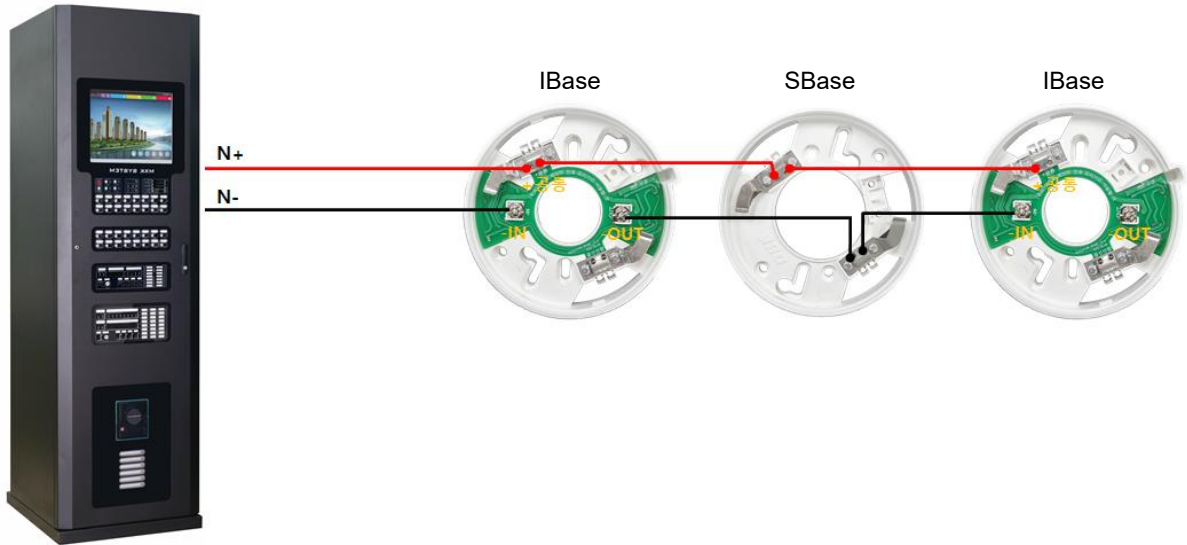
● Back Loop Type

IBase   SBase   IBase
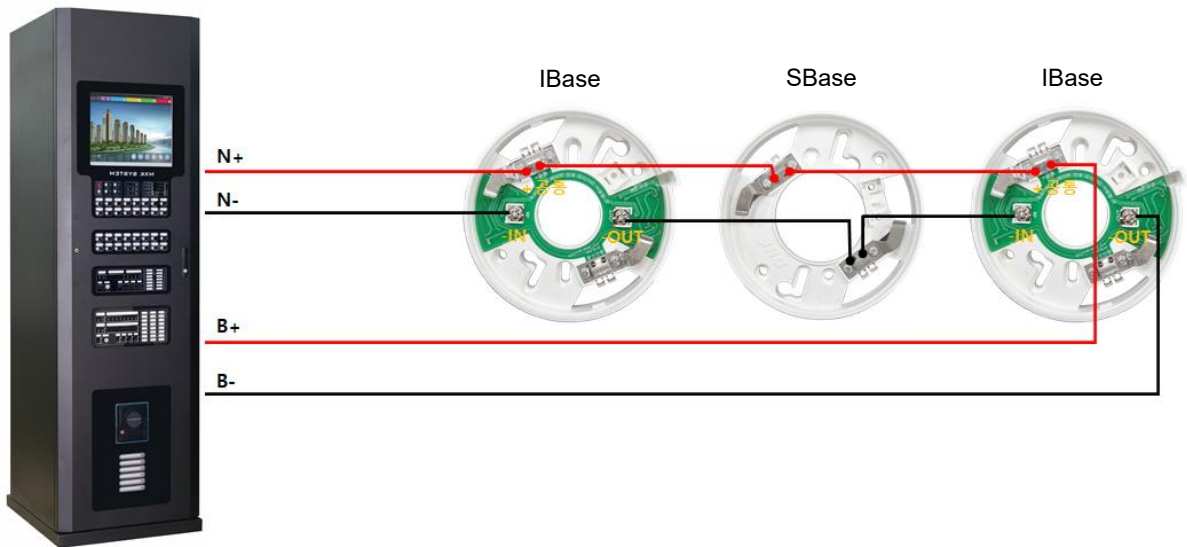
Isolator Base Terminal	Description
+Common	+ Power In/Out
-IN	- Power In
-OUT	- Power Out