HOWL2
SMB-P・R series

IEC Category C2/D1 compliant

Conforming standards

- IEC 61643-21 compliant
- IEC category C2/D1 compliant
- RoHS compliant

Features

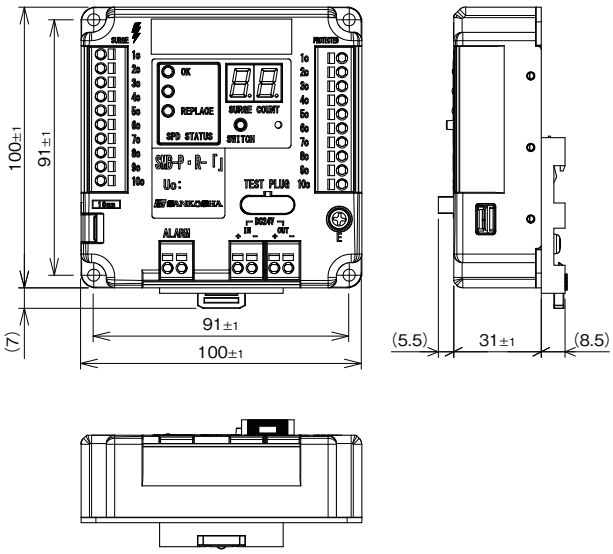
- Applicant up to 10 core wiring
- LED deterioration display function
- Replacement recommendation display function
- Lightning surge count display function
- DIN rail (35mm) mounting
- Design registered product

Applications

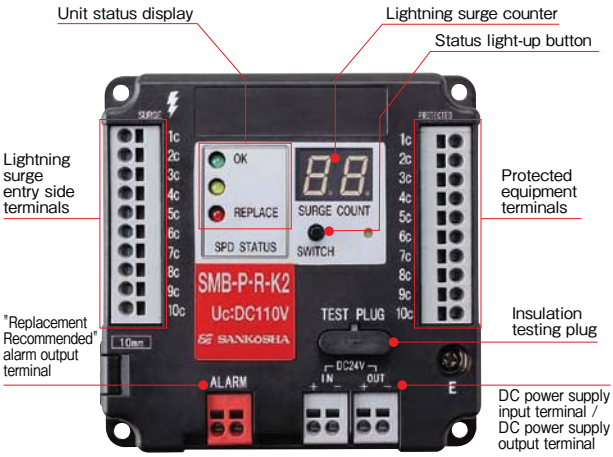
- Automatic fire alarm equipment
- Multi line

Dimensions: W100×D31×H100(mm)
Mass: about 200(g)

■External view



■Part name

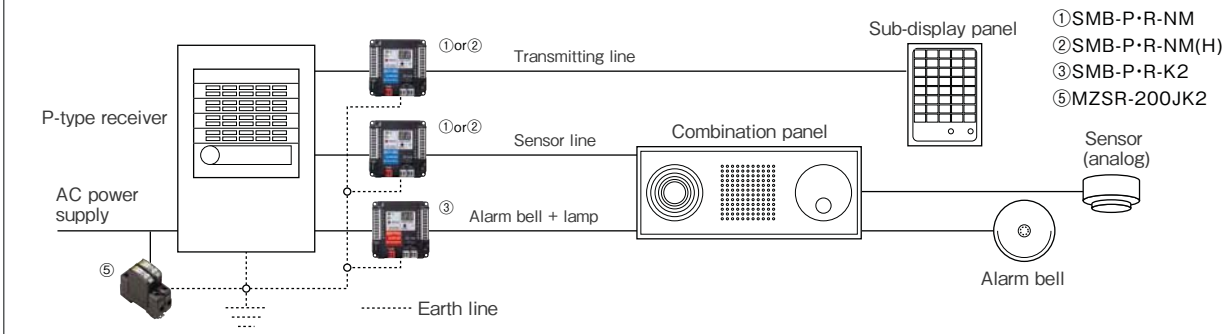


■Applications/Characteristics

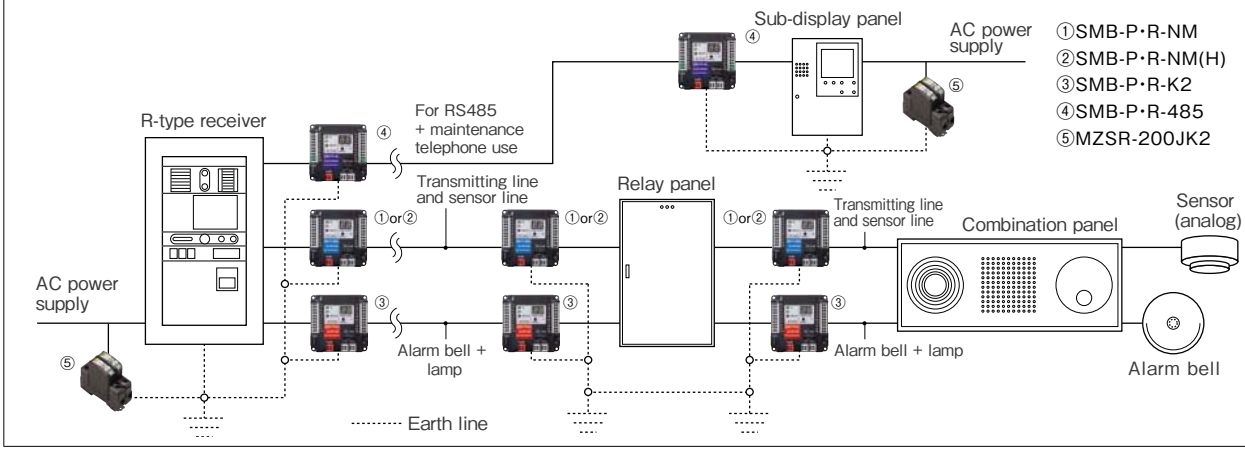
Item		Characteristics					
		SMB-P・R-NM	SMB-P・R-NM (H)	SMB-P・R-K2	SMB-P・R-H3	SMB-P・R-485	
Application		Alarm transfer line, sensor line	Alarm transfer line, sensor line, high durability type for impluse current	Bell + Display light	Instrumentation line (DC4-20mA etc.)	RS485 + Maintainance telephone	
Maximum continuous operating voltage (Uc)		DC48V	DC48V	DC110V	27V	RS485	Maintainance telephone
						DC15V	DC48V
Rated current		1A		3A	100mA		1A
Series resistance		1Ω or less			4Ω~6Ω		1Ω or less
Impluse current durability	8/20μs	5kA	10kA	5kA			
	10/350μs	2.5kA					
Voltage protection level (Up)	1.2/50μs, 10kV	500V or less	500V or less	1kV or less	150V or less	100V or less	500V or less
Connection core		10 cores				8 cores	2 cores

■Examples of SPD installations

Type A／P-type lightning protection system



Type B／R-type lightning protection system



■Innovative status display

LEDs make the SPD status easier to read. "Replacement Recommended" function helps you make a replacement before a malfunction occurs.

〈LED display〉
Green: OK

Yellow: Replacement recommended

Red: Replace

When replacement is recommended, the alarm terminal outputs an alarm signal.

■Visualization of lightning surges

When a lightning surge comes in, a 7-segment display shows the number of times the unit has operated.

■Light-emitting system

Uses two systems: button battery or DC power supply input. The LED-lamp status display and the 7-segment display in the surge counter light up.

If the unit is only powered by a button battery, the status display will light up for several seconds when you press the "SWITCH" status light-up button.

When running on a DC power supply input, the status display will be lit all the time. In addition, if you are using multiple HOWL2 units, you can wire them in parallel to a DC power supply. (Power consumption approx. 80 mA per unit)

■Additional functions for use in insulation testing

Please remove the TEST PLUG from the front of the HOWL2 before you test the insulation of fire alarm systems. This will suppress SPD electrical discharges and meet the specified values during the tests.

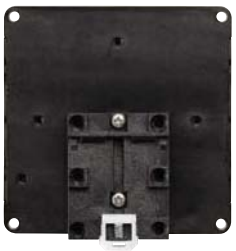
* Be sure to put the TEST PLUG back in its original place after finishing insulation testing. To prevent you from forgetting to put the test plug back, an alarm will sound when the HOWL2 is operated without its plug in place.

■Multiple cores

Even though the HOWL2 is small and compact, its cable can have 10 core wires.

* Must be installed by a qualified person.

■Flexibility in mounting

Even though the HOWL2 is small and compact, its cable can have 10 core wires.

* The special adapter attaches to the HOWL2.