REV. DATE	DESCRIPTION	MESSRS		
			ROUND MONITOR DEL: SBG-241D)	
		- 05	NEDAL ODECISIOATION	
			NERAL SPECIFICATION TLINE DIMENSION	
			ME PLATE STRUTION MANUAL	
		_		
			6 SHEETS WITH COVER	
		De LUXCO C	CO., LTD.	
		980-17, Jangrim-dong, Saha-gu, Busan, 604-040, Korea		
		TEL: +82-51-262-8588 FAX: +82-51-262-8538 http://www.luxco.co.kr		
		CLASS		
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		DESIGNED BY	C. G. PARK	
		DATE	2004. 02. 14	
		DRAW No.	T242-14	

■ SPECIFICATIONS

• GENERAL TABLE

MODEL	Auxiliary con		Insulation resistance setting 12 step value is selectable	Maximum detecting
Norminal Variations		Variations	12 step value is selectable	line voltage
SBG-241D	DC24V	DC 19~30V	0.001 - 0.002 - 0.003 - 0.004 - 0.005 - 0.007 - 0.01 - 0.02 - 0.03 - 0.05 - 0.1 - 0.2MΩ	DC 35V

DETECTION ACCURACY

AMDIENT TEMP	DETECTION ACCURACY		Range of aux' voltage variations		
AMBIENT TEMP (percent value in reference to set value)		Norminal	Variations		
+ 3°C ~ 45°C	0.005 ~ 0.2MΩ	± 5%			
	~ 0.005MΩ, 0.2MΩ ~	±10%	DC24V	DC 19V ~ 30V	
-10°C ~ +3°C	0.005 ~ 0.2MΩ	±10%	DO24V	DC 19V ~ 30V	
+45°C ~ 60°C	~ 0.005MΩ, 0.2MΩ ~	±20%			

DEAD BAND : 5% of less the set value.

NOTE

The dead band refers to the difference in % of the set value between the pickup value and the drop out value. The pickup value is a value at which the monitor turns to an operate state and drop value is a value at which the monitor is reset to a non-operate state. In other words, the dead band is reset hysteresis. The detection accuracy is the maximum deviation if the actual pickup value from the nomical set value.

● SELECTION FO SETTING : By 12-position selector switch.

● MAXIMUM OUTPUT CONTACT RATING : 5A (resistive) or 2A (inductive) at 30V DC.

5A (resistive) or 2A(inductive $\cos \emptyset = 0.6$) at 125V AC. 3A (resistive) or 1A(inductive $\cos \emptyset = 0.6$) at 250V AC.

● OUTPUT CONTACT FROM : 1C (single-pole double - throw).

● DIELECTRIC STRENGTH : 1.5KV between electric circuit (T.B #9) and enclosure for 1min.

POWER CONSUMPTION : 2W

■ MAXIMUM LEAKAGE CURRENT : 250

A (Detector circuit)

MONITOR OPERATION CHECK: A test circuit that applies a short or a dummy resistance

less than the set value across each test terminals and ground terminals is to be provided by the user for

monitor operation check.

● OPERATION TIME DELAY : 3.0 sec (± 0.5 sec) definite time delay, reset time delay is 0.5 sec or less.

Title GENE	ERAL SPECIFICAT	ΓΙΟΝ (SBG-	-241D)	
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● OPERATION TEMPERATURE RANGE : -20°C ~ +60°C

● STORAGE TEMPERATURE RANGE : -40°C ~ +65°C

● VIBRATION: The monitor is so constructed that it will withstand applications of the following vibration for 2 hours in each X, Y and Z diractions: — for vibration frequency from 2 to 13.2Hz, 2mm double amplitude, for vibration frequencies 13.2 to 100Hz.

• SPECIFICATION OF INSULATION RESISTANCE METER (Option)

Three meter types available

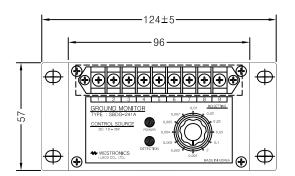
METER TYPE	REMARKS	SIZE m/m
W11 – AD	option (wide angle METER)	110 × 110
DCF - 12Na	standard (Japan TOTO)	120 × 100
KS - 6e	option	72 × 72

METER INDICATION ACCURACY

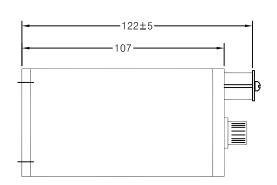
SCALE RANGE	SCALE RANGE (% of indicated value)	REMARKS
0.05ΜΩ ~ 1ΜΩ	± 5%	0
outside of above : less than 0.05MΩ and more than 1MΩ :	± 10%	Operating temprature range - 20 °C ~ + 60 °C

Title GENERAL SPECIFICA	TION (SBG-	-241D)	
LUXCO CO., LTD.	DWG. No. T242-14	Edition	Sheet 2

FRONT VIEW

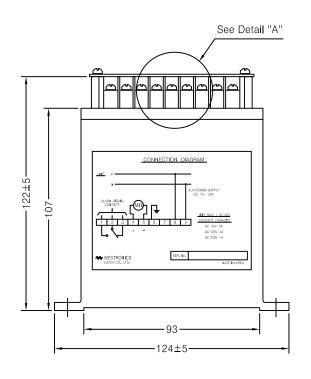


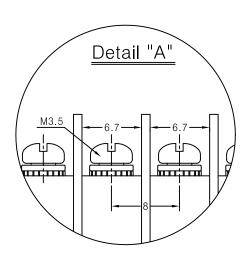
SIDE VIEW



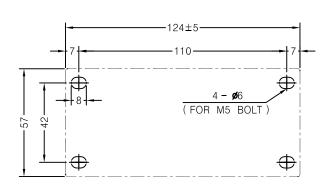
BOTTOM VIEW

(With connection diargam)





MOUNTING



NOTE

1. T. B COVER : PC (R3000) CLEAR
2. T. B : PC (R3000) BLACK
3. CASE : PC (R3000) BLACK

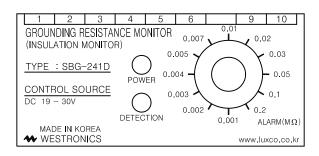
Title

OUTLINE DIMENSION FOR DC GROUND MONITOR (SBG-241D)

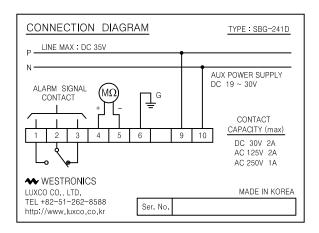


DWG. No. Edition T241-29 Sheet

FRONT PLATE



SIDE PLATE



Title NAME PLATE (SBG-241D)	
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■ INSTRUCTION MANUAL (FOR SBG-241D)

GENERAL

This insulation resistance monitor consists of a meter and a power box monitor the insulation level of a non-frounded DC electrical system.

MONITOR

The monitor convers DC main power into regulated DC power. The DC output voltage is constant over an DC input voltage of 80% to 120% of the rating (DC24V).

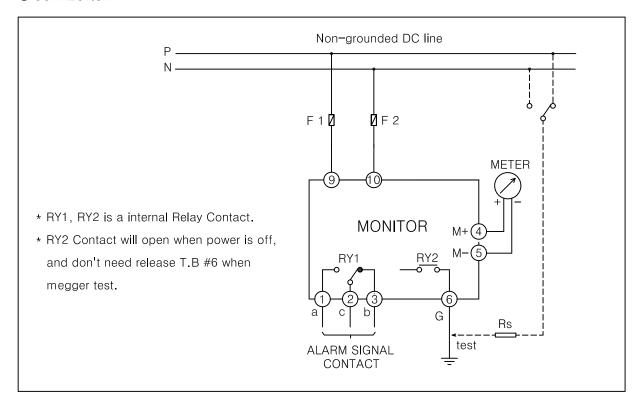
There is no detection line on monitor, detection line is inside connected DC lines.

FEATURES

This insulation resistance monitor features:

- a. continuous monitoring of insulation level.
- b. provision for low insulation level alarm, output contact can be used as either alarm "make" or alarm "break" signal.
- c. error free stable operation, use of voltage regulator circuits in both meter and relay sections.
- d. detection function in both line (P) or (N).

CONNECTION



* The terminal (#9, 10) must be connected to power 'P' and 'N'.

Title INSTRUTION MANUAL (SBG-241D)					
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