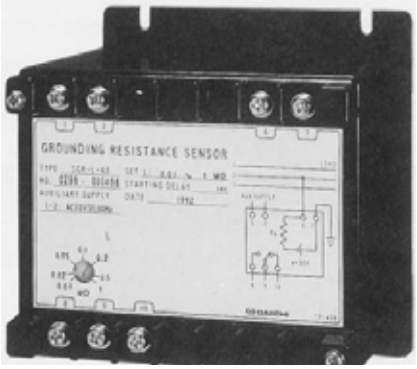
GROUND RESISTANCE DETECTOR

SGR-L- 63

SDGR-L-63



SGR-L-63
(120×110×112mm/1.0kg)

■ USE

This product detects grounding resistance of isolated neutral system DC power circuit and outputs contact signal. As DC bus voltage of measuring circuit is used as it is and grounding resistance is sought in bridge detection circuit, influence such as stray capacity generated upon wiring circuit such as ship can be removed. As circuit composition has no influence of power voltage fluctuation, stable performance can be realized with possible high sensitivity setting.

■ FEATURES

► Influence of measuring circuit power voltage fluctuation can be compensated.
►Stray capacitance between lines upon measuring circuit can be removed.

■ STANDARD SPECIFICATION

Item	Standard specification		
Product	AC earth resistance detector		DC earth resistance detector
Type name	SGR-L-63		SDGR-L-63
Input	Identical to setting range.		
Measuring circuit voltage	AC110/220/440V		DC24V+30%, -20%
Control supply	AC100/110V±15%, 5VA or AC200/220V±15%,5VA	AC400/440V±15% (50/60Hz)	identical to measuring circuit voltage (power consumption 3W)
Contact output	L;1C		
Contact capacity	AC200V 5A, DC24V 5A　resistance load/DC125V 80mA L/R=30mS		
Starting delay (S/D)	Fixed: 0.5 sec.		
Setting range	Refer to setting range example.		
External color	Black (Munsell N 1.5)		
Operating temperature/ humidity range	-10～+50℃; 40-85% RH		
Storage temperature range	-30～+60℃		
Mass	1kg		Approx. 500g
Setting stability	±5%	(% against setting value.)	
Operating value setting error	±10%	(% against setting value.)	
Dead band	10% or less	(% against setting value.)	
Temperature influence	5%	(% against setting value.) (23℃±20℃)	
Measuring circuit voltage influence	5%	(% against setting value.) (24V±30%, -20%)	

■ CONTROL OUTPUT CONDITION

Input state Input : ▨		Contact state
Auxiliary supply OFF Not based on input	0 → Resistance high L	8 9 10
Auxiliary supply ON input ≦ L	0 → Resistance high L	8 9 10
Auxiliary supply ON L ＜ input	0 → Resistance high L	8 9 10

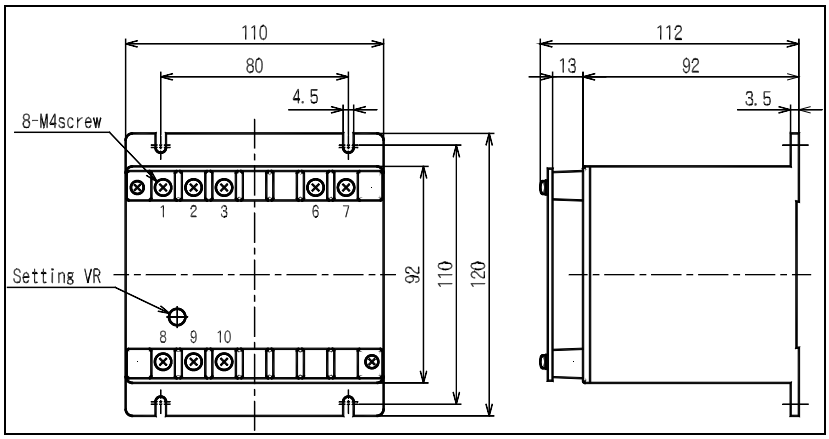
●Setting range eg.(SGR-L-63)

	Setting range	Internal impedance
L	0.01-1MΩ	100kΩ
	0.05-5MΩ	500kΩ
	0.1-10MΩ	1MΩ

●Setting range eg.(SDGR-L-63)

	Setting range
L	1k- 5k- 25kΩ
	2k- 10k- 50kΩ
	4k- 20k- 100kΩ

■ CONNECTION DIAGRAM



■ DIMENSION