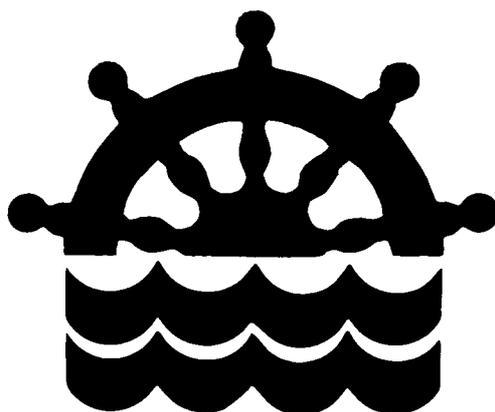


BRA 250 REPEATER

Operation
and
Installation
manual

V.3 February 2001



SCAN-STEERING

CONTENTS

1. BRA-250 - a brief description.....	3
2. Input signals.....	3
3. BRA-250 Repeater Overview.....	3
3.1. COMPASS ROSE.....	3
3.2. DIMMER.....	3
3.3. RESET.....	3
4. Configuration.....	4
5. Connections.....	5
6. Disassembly.....	5
7. Technical Data.....	5
8. Dimension of Casing.....	6

1. BRA-250 - a brief description.

The BRA-250 is a bearing repeater, designed to withstand the conditions on a ships bridge wings. The BRA-250 is mounted in a bracket.

The repeater is provided with an illuminated scale for proper course reading. Also it is provided with a reset function and dimmer key located on the side of the column.

The BRA-250 repeater only needs a 24V DC power and a step by step or NMEA input signal.

2. Input signals.

BRA-250 is provided with various input facilities. It is possible to input any common 24V/30V/70V step signals or NMEA signal.

The step signals are selectable to have either positive or negative reference and a voltage of 24V, 30V or 70V.

The choice of input is made through a programming of the device. Several switch-settings gives an easy selection of the desired input type.

3. BRA-250 Repeater Overview.

3.1. COMPASS ROSE.

The top of the repeater consists of a compass rose field with diameter 200mm.

3.2. DIMMER.

Enables dimming of the scale light.
Turned clockwise to increase the light intensity.

3.3. RESET.

The reset button is used for adjustment of the repeater reading.
Push the button and keep it pushed.
Doing this will make the repeater change its reading.
First slowly (for app. 2 sec.) and then fast.

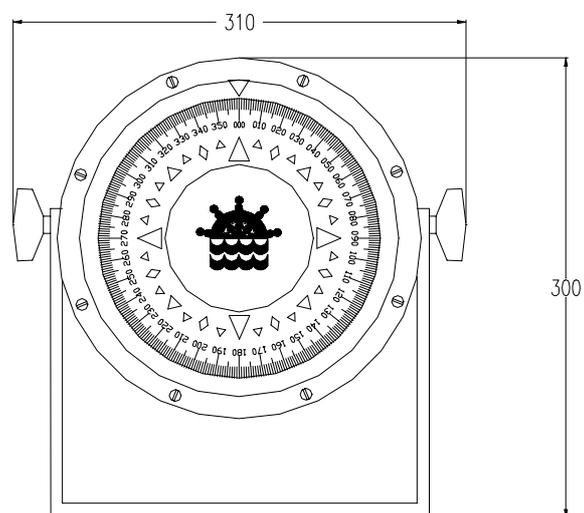


Fig. 1.

4. Configuration.

Before applying power to the repeater, be sure that a proper configuration has been set up.

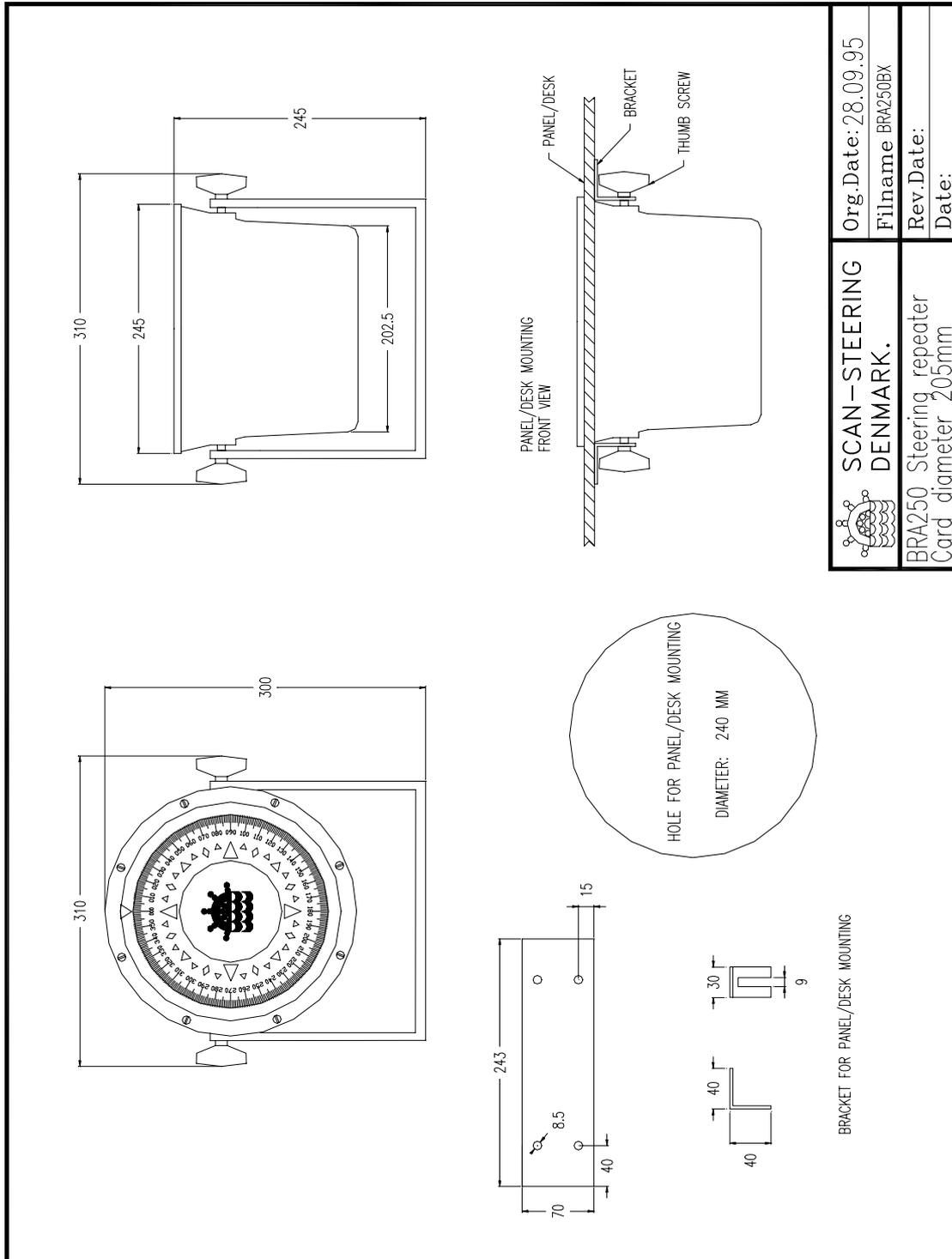
The configuration is done by setting 24 small dip switches. Those 24 dip switches are divide into 4 switches with 6 dip switches in each. These switches are called SW1, SW2, SW3 and SW4. Each little dip switch is numbered with 1 - 6 and are referred to as e.g. SW2.3 (Switch nr. 2, Dipswitch nr. 3).

The switches must be set to the right type of input signal. The settings are shown in figure 2.

		SW4		SW3		SW2		SW1					
		1	2	3	4	5	6	1	2	3	4	5	6
24-30V Step	ON							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Neg. common	OFF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
24-30V Step	ON							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Pos. common	OFF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
70V Step	ON							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Neg. Common	OFF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
70V Step	ON							<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Pos. common	OFF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
NMEA 183	ON			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>					
RS 422	OFF	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Fig. 2. Dip-switch settings.

8. Dimension of Casing.



	SCAN-STEERING DENMARK.	Org.Date: 28.09.95 Filename: BRA250BX
	BRA250 Steering repeater Card diameter 205mm	Rev.Date: Date: