

INITIAL STRING JUNCTION



P/N JBX-SMCP50-ILT

DESCRIPTION

Polyamide case used to make initial string junction for SISMA CP 50 systems. To join parts of the same sensors string use the product P/N JBX-SMCP50.

PACKAGE CONTENUT

1. No 1 case body
2. No 1 case cover
3. No 1 pile shoe
4. No double layer printed circuit board
5. No 2 tie wraps FPM-100

To seal the junction RP-100 polyurethane resin must be used..

ONE PACKAGE OF RESIN IS USED TO SEAL ONE JBX-SMCP50-ILT CASE.

TO USE WITH CV-SMCP50 CONNECTION CABLE.

THE INITIAL STRING JUNCTION WITH THE NEW CIRCUIT BOARD V1.1 MUST BE USED ONLY IN COMBINATION WITH THE NEW TERMINATION P/N TBX-SMCP50 V1.1. IT'S FORBIDDEN TO USE THE OLD TERMINATION CONTAINING THE OLD PCB NAMED CT40100T. YOU MUSTN'T USE THE JBX-SMCP50 JUNCTION TO MAKE INITIAL STRING JUNCTIONS BUT MUST BE USED ONLY TO MAKE INTERMEDIATE O BYPASS

INSTALLATION

1 PASSING CABLES

Insert the cables in a round hole of the case cover.



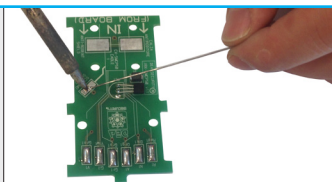
2 PREPARATION CABLES

Strip the cable as shown on the printed circuit board.



3 TINNING

Tin the pads on the printed circuit board.



COMPLIANCE

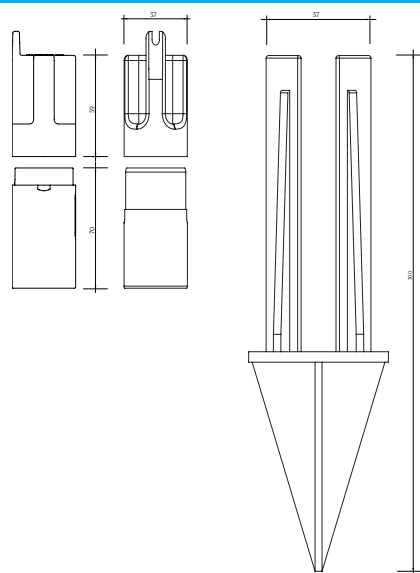
- DIRECTIVE 2014/30/EU intrinsically benign apparatus



TECHNICAL FEATURES

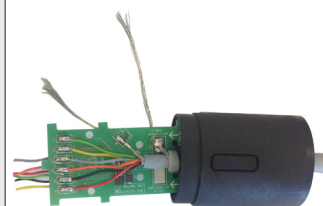
- DIMENSIONS:**
 - CASE: 52 x 37 x 133 mm (major axis x minor axis x H)
 - PILE SHOE: 77 x 65 x 300 mm (major axis x minor axis x H)
- GROSS WEIGHT:** 250 g
- OPERATING TEMPERATURE:** -40 ÷ +80 °C
- RELATIVE HUMIDITY:** 0 ÷ 100% after sealing with RP-100 resin
- MATERIAL:** glass fiber reinforced polyamide
- COLOUR:** black

DIMENSIONS SCHEME



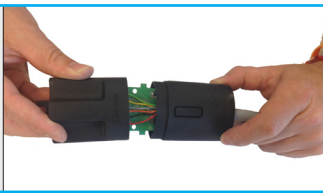
4 FIXING CABLE

Using the tie wraps, fix the cables to the printed circuit board. Solder the wires of the cable coming from the SC-SMCP50-Z1 processing board on the "IN" side respecting the colors shown in the JBX-SMCP50 v1.1 silkscreen. Solder the sensor string's wires to the "OUT" side of the PCB respecting the colors shown in the silkscreen.



5 INSERT CIRCUIT

Carry out the checks as described below, then insert the printed circuit board into the enclosure body using the guides.



6 CLOSING

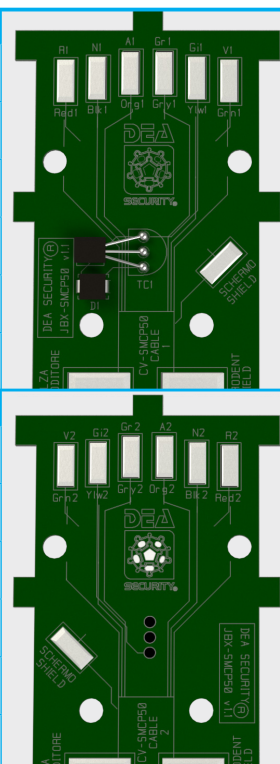
Close the case with its cover.





CHECK CONNECTIONS

INPUT (FROM SENSOR)	PCB SILKSCREEN	COLORS
	R1 (Red1)	RED IN
	N1 (Blk1)	BLACK IN
	A1 (Org1)	ORANGE IN
	Gr1 (Gry1)	GREY IN
	Gi1 (Ylw1)	YELLOW IN
OUTPUT (TO SENSOR)	PCB SILKSCREEN	COLORS
	V2 (Grn2)	GREEN OUT
	Gi2 (Ylw2)	YELLOW OUT
	Gr2 (Gry2)	GREY OUT
	A2 (Org2)	ORANGE OUT
	N2 (Blk2)	BLACK OUT
	R2 (Red2)	RED OUT



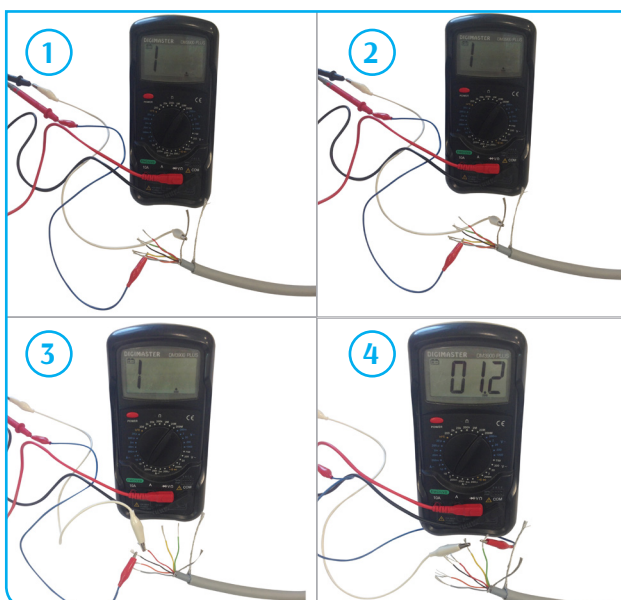
THE IN - OUT MATCHING MUST BE RESPECTED, AS DESCRIBED ABOVE, OTHERWISE THE SYSTEM MAY NOT WORK PROPERLY.



PRE-SEALING CHECK

After terminating sensors string and, if necessary, making intermediate junctions you have to check:

1. Anti-Rodent Shield must be insulated from the other wires and shield..
2. Shield must be insulated from the other wires and anti-rodent shield.
3. Red, Black, Orange and Grey wires must be insulated each other.
4. Yellow and Green wires must not be insulated each other. You should measure a resistance that is in the order of MΩ.

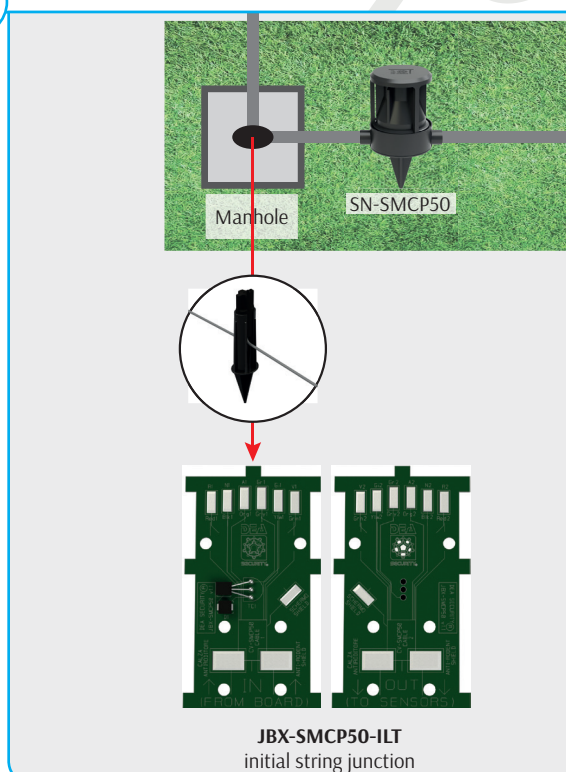


PRE-SEALING

1. Place the pile shoe into the ground in a vertical position.
2. Insert the junction case into the pile shoe with the cables upwards.
3. Prepare the polyurethane resin as shown on its package.
4. Pour the resin inside the case using the cover holes.
5. Wait for the resin polymerization (at least 40 minutes at 5°C or at least 25 minutes at 25°C).
6. Turn the junction case upside down and insert it into the pile shoe with cables downwards.



SCHEMATIC SUMMARY



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