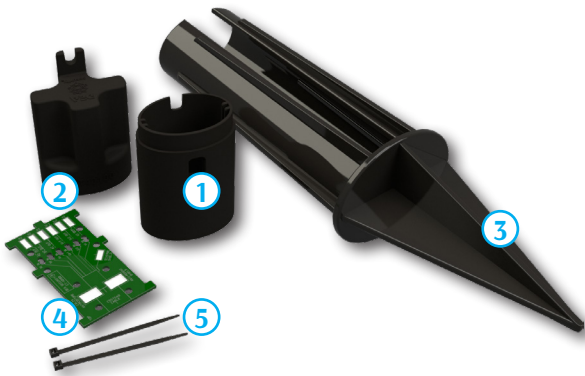




JUNCTION



P/N JBX-SMCP50

DESCRIPTION

Intermediate junction of SISMA CP50 sensor-string, consisting of polyamide container with addition of glass fiber, ABS's pile shoe for ground fixing and printed circuit to simplify the wiring procedures.

PACKAGE CONTENTS

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.

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 JUNCTIONS.

INSTALLATION

1 PASSING CABLES

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



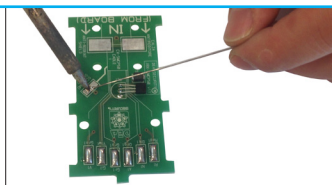
2 PREPARATION CABLES

Strip the cable as shown on the printed circuit board.



3 TINNING

Tin the pads on the printed circuit board.



COMPLIANCE

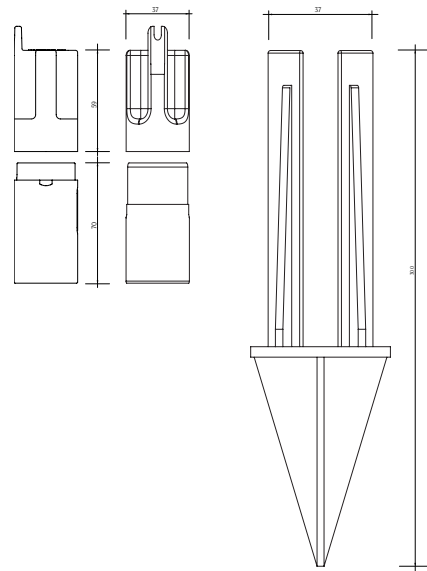
- Directive 2014/30/EU intrinsically benign apparatus



TECHNICAL FEATURES

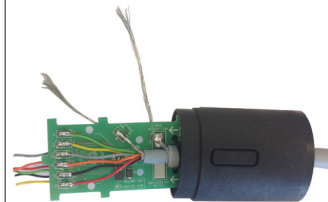
- **DIMENSIONS:**
 - **CASE:** 52 x 37 x 133 mm (major axis x minor axis x H)
 - **PILE SHOE:** 77 x 65 x 300 mm (major axis x minor axis x H)
- **GROSS WEIGHT:** 250 g
- **NET WEIGHT:** n.a.
- **OPERATING TEMPERATURE:** -40 ÷ +80 °C
- **RELATIVE HUMIDITY:** 0 ÷ 100% after sealing with RP-100 resin
-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

DIMENSIONAL SCHEME



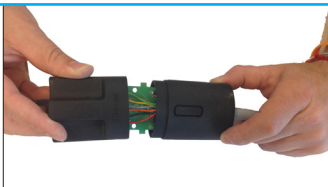
4 FIXING CABLE

Using the tie wraps, fix the cable to the printed circuit board and insert the wires into the holes as shown on the silkscreen. Solder the wires and the shield to the R, N, A, Gr, Gi, V, SHIELD and ANTIRODENT SHIELD pads on the printed circuit board.



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	COLOURS	
	R1 (Red1)	ROSSO IN	
	N1 (Blk1)	NERO IN	
	A1 (Org1)	ARANCIONE IN	
	Gr1 (Gry1)	GRIGIO IN	
	Gi1 (Ylw1)	GIALLO IN	
OUTPUT (TO SENSOR)	PCB SILKSCREEN	COLOURS	
	V2 (Grn2)	VERDE OUT	
	Gi2 (Ylw2)	GIALLO OUT	
	Gr2 (Gry2)	GRIGIO OUT	
	A2 (Org2)	ARANCIONE OUT	
	N2 (Blk2)	NERO OUT	
	R2 (Red2)	ROSSO OUT	



PRE-SEALING

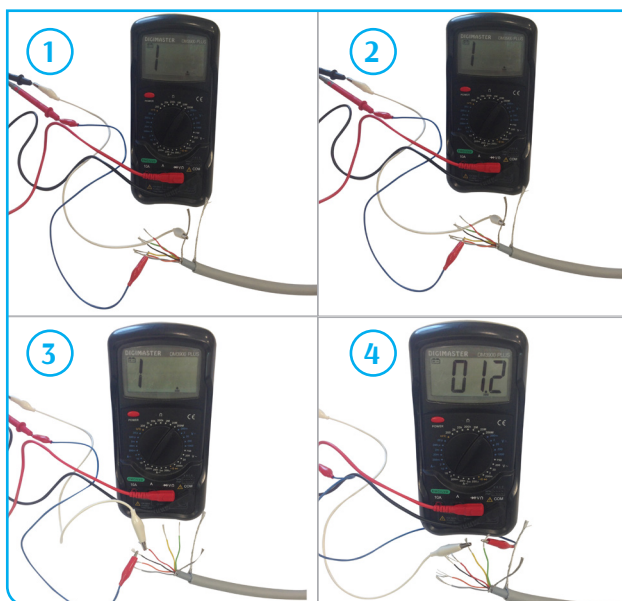
1. Place the pile shoe into the ground in a vertical position.
2. Insert the junction case into the pile shoe with the cables upwards.
3. Prepare the polyurethane resin as shown on its package.
4. Pour the resin inside the case using the cover holes.
5. Wait for the resin polymerization (at least 40 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.



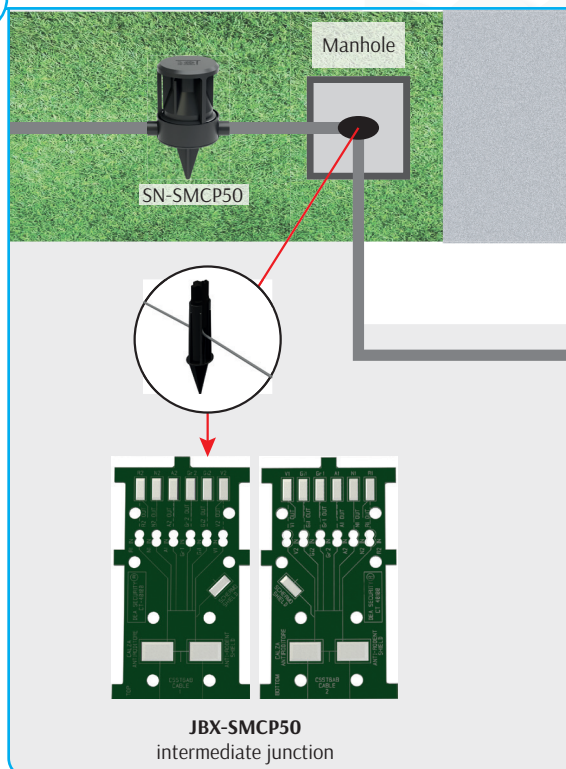
PRE-SEALING CHECK

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.



SCHEMATIC SUMMARY



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