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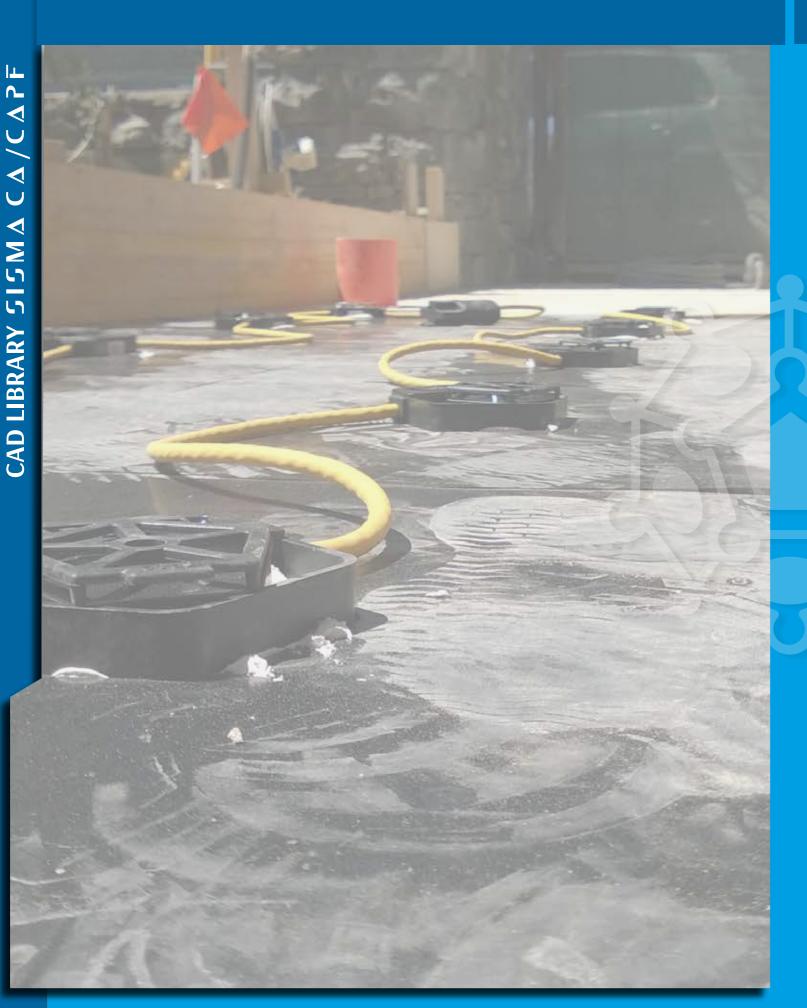




**UNDERFLOOR INTRUSION DETECTION SYSTEM** 



### **CONTENS**



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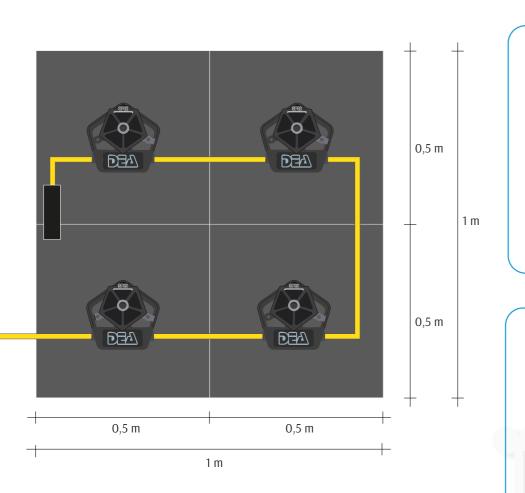


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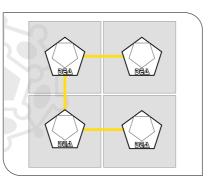
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### **PROJECT ICON**



### **VERSIONS AVAILABLE**

PART NUMBER	DESCRIPTION
MD4-SMCA	4 sensors for 1,0 m <sup>2</sup> protection
MD6-SMCA	6 sensors for 1,5 m² protection
MD8-SMCA	8 sensors for 2,0 m <sup>2</sup> protection
MD10-SMCA	10 sensors for 2,5 m² protection
MD12-SMCA	12 sensors for 3,0 m² protection
MD16-SMCA	16 sensors for 4,0 m² protection
MD20-SMCA	20 sensors for 5,0 m² protection
MD24-SMCA	24 sensors for 6,0 m² protection

# Elastomeric membrane Cover with screed and flooring Module termination Sensor Installation slab (R.C.)

### **TECHNICAL DATA**

### COMPLIANCE

In combination with the related processing boards:

- DIRECTIVE 2014/30/UE (EMC)
   EN 50130-4:2011+A1:2014
   EN 61000-6-3:2007+A1:2011
- DIRECTIVE 2011/65/UE (ROHS)
- CEI 79-2 (2<sup>a</sup> edition)



### **TECHNICAL FEATURES**

#### **SENSOR**

- DIMENSIONS:
- OPERATING TEMPERATURE:
- RELATIVE HUMIDITY:
- MATERIAL:

### **ELASTOMERIC MEMBRANE:**

- DIMENSIONS:
- MATERIAL:
- **CONNECTION CABLE:**
- **CEMENT-BASED ADHESIVE:**

106 X 26 mm (Ø X H)

-40 ÷ +80 °C

0 - 100%

ABS body, sealed with epoxy

50 x 50 cm (L x W)

SBR rubber,

please see CV-SMCA cable datashee

model Kerakoll BIOGEL NO LIMITS

#### **DETAIL**



# SISMACA

Sensor-module for flooring

p/n. **MD-SMCA** 

Scale 1:10



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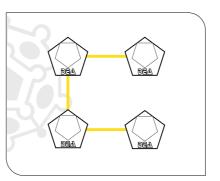
SISMA

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Raised floor

Raised floor structure

### **PROJECT ICON**



### **VERSIONS AVAILABLE**

P/N	DESCRIPTION
MD4-SMCAPF	4 sensors for the protection of 6 m <sup>2</sup> of surface
MD6-SMCAPF	6 sensors for the protection of 9 m <sup>2</sup> of surface
MD8-SMCAPF	8 sensors for the protection of 12 m <sup>2</sup> of surface
MD12-SMCAPF	12 sensors for the protection of 18 m² of surface
MD16-SMCAPF	16 sensors for the protection of 24 m² of surface

Sensor

### **TECHNICAL DATA**

### COMPLIANCE

In combination with the related processing boards::

• DIRECTIVE 2014/30/EU

EN 50130-4:2011
 EN 61000-6-3:2007+A1:2011

**DIRECTIVE 2011/65/EU**• EN 50581:2012



### TECHNICAL FEATURES

#### SENSOR:

• DIMENSIONS: 106 x 25 mm (Ø X H) • OPERATING TEMPERATURE: -40 ÷ +80 °C

• RELATIVE HUMIDITY: 0 - 100%

 MATERIALE: ABS sealed with epoxy resin

CABLE: For further information see CV-SMCA datasheet

### **DETAIL**



### SISMACAPF

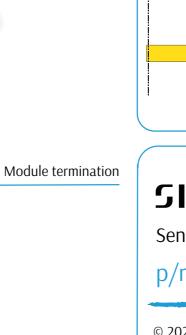
Sensor-module for raised floors

p/n. MD-SMCAPF Scale 1:10



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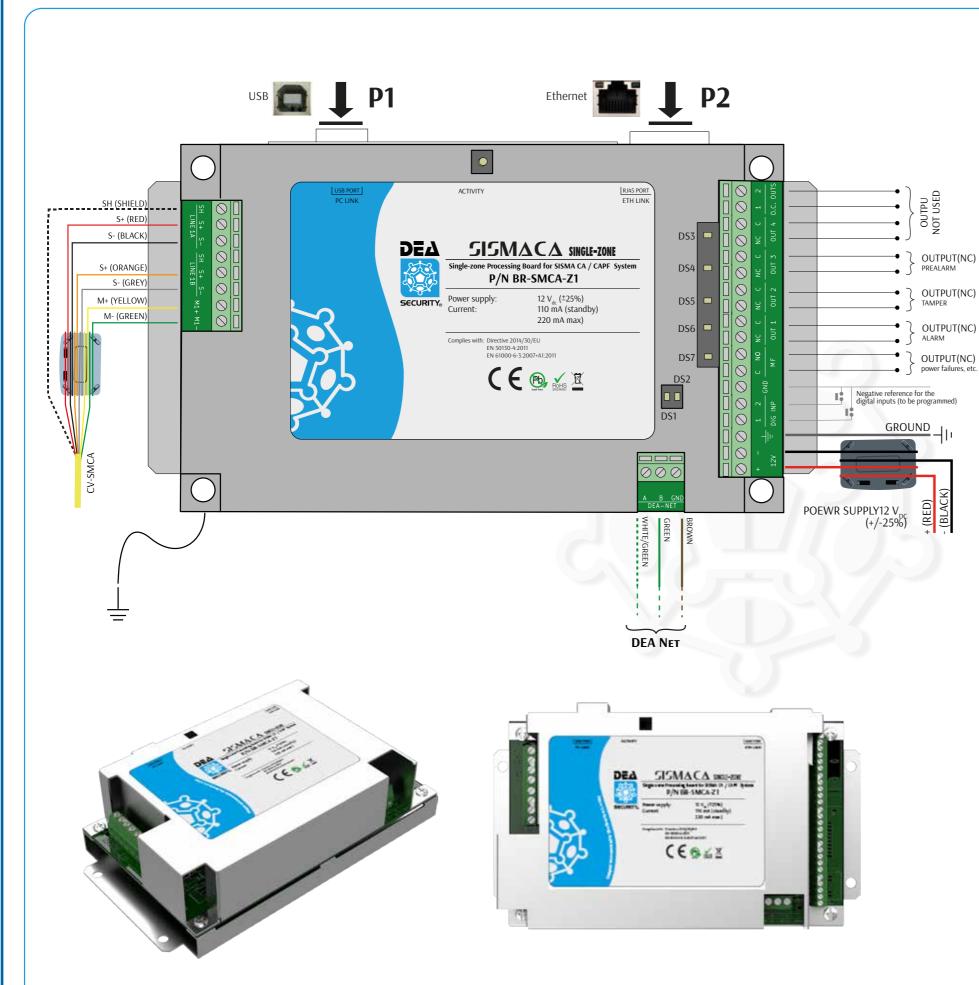
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### **TECHNICAL DATA**

#### COMPLIANCE

In combination with the sensor-module:

- DIRECTIVE 2014/30/EU
- EN 50130-4:2011 + A1:2014
- IEC 61000-6-4:2018
- DIRECTIVE 2011/65/EU
- EN 50581:2012

### **TECHNICAL FEATURES**

DIMENSIONS: 178 x 90 x 40mm (L x H x W)
 PACKAGE DIMENSIONS: 190 x 95 x 50 mm (L x H x W)

GROSS WEIGHT:

• NET WEIGHT: 240 g

• **POWER SUPPLY**: 12 V<sub>DC</sub> (+/-25%)

• CURRENT: 110 mA (max)

• OPERATING TEMPERATURE: -25 ÷ +80 °C

• **RELATIVE HUMIDITY**: <95% non condensing

ANALYSIS CAPABILITY: up to 1 SISMA CA or SISMA CAPF module
 INPUTS: up to 1 SISMA CA or SISMA CAPF module
 2 opto-isolated digital inputs, programmable

via software

• NC RELAY OUTPUTS (POSITIVE SECURITY):

1 for sensor-module alarm

1 for sensor-module prealarm1 for sensor-module tamper

• 1 for low supply voltage, service in progress or functioning

CE PO ROHS

anomalies of the board

• COMMUNICATION PORTS:

USB port (PC link)ethernet port (RJ45)

■ DEA NET bus

CALIBRATION, SETTINGS AND EVENTS MANAGEMENT VIA SOFTWARE

• **CPU**: 32 bits, 168 MHz

DIGITAL MEMORY: more than 20.000 events

SERVICE SOFTWARE LICENCE INCLUDED

### **PROJECT ICON**



# SISMACA

Single-zone processing board

p/n. **BR-SMCA-Z1** 

Scale 1:1



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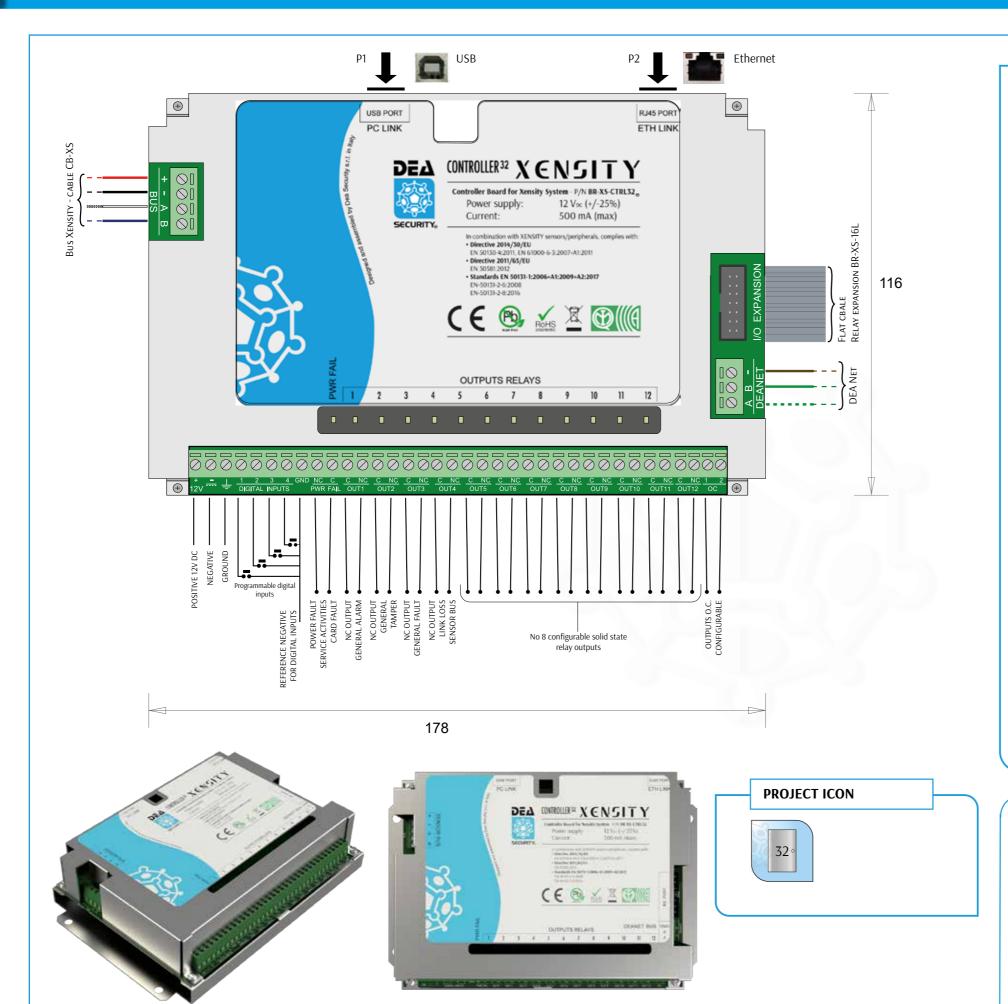


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### **TECHNICAL DATA**

### **COMPLIANCE**

In combination with XENSITY sensors/peripherals:

- DIRECTIVE 2014/30/EU
- EN 50130-4:2011
  EN 61000-6-3:2007+A1:2011
- DIRECTIVE 2011/65/EU
- EN 50581:2012
- STANDARDS EN 50131-1:2006+A1:2009+A2:2017
- EN-50131-2-6:2008
- EN-50131-2-8:2016



C E PO ROHS

#### **TECHNICAL FEATURES**

• SECURITY GRADING: Grade 3 certified

EN 50131-2-6 in combination with SN-XS-FDRM Grade 3 certified

EN 50131-2-8 in combination with SN-XS-FWL

• DIMENSIONS: 178 x 116 x 30 mm (L x H x W) PACKAGING DIMENSIONS: 235 x 170 x 70 mm (L x H x W)

GROSS WEIGHT:

 NET WEIGHT: 302 g

POWER SUPPLY: 12 V<sub>DC</sub> (+/-25%)

CURRENT: 0,5 A (max)

OPERATING TEMPERATURE: -25 ÷ +70 °C RELATIVE HUMIDITY: <95% non condensing

 INPUTS: 4 digital opto-isolated

NC STATE SOLID RELAY OUTPUTS:

general tamper

power Fail / service Activity / CPU fault detection
 sensor fail / selftest fail

bus link loss

8 programmable

Auxiliary C/NC relay outputs:

up to 64 on 4 BR-XS-RE16L expansion boards

 OC OUTPUTS: 2 programmable

**COMMUNICATION PORTS:** 

ethernet (RJ45)

USB

bus DEA NET connector for flat cable (BR-XS-RE16L)

 No of devices managed: up to 32 sensors/peripheral

CALIBRATIONS AND CONFIGURATIONS TROUGHT SERVICE SOFTWARE

• CPU PROCESSING CAPACITY:

• **DIGITAL MEMORY**: more than 20.000 events

SERVICE SOFTWARE LICENCE INCLUDED

## XENSITY

Control board for 32 sensors

p/n. **BR-XS-CTRL32** Scale 1:1



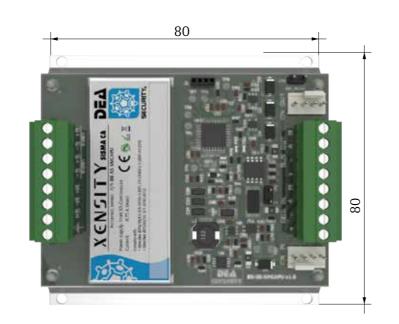
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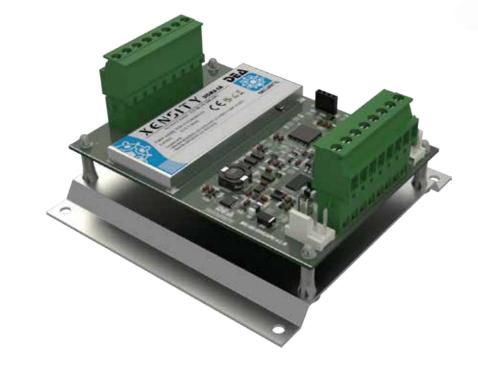
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**SISMA** 

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### **TECHNICAL DATA**

### **COMPLIANCE**

In combination with the Control board:

DIRECTIVA 2014/30/UE (EMC)

■ EN 61000-6-3:2007+A1:2011

• DIRECTIVA 2011/65/UE (ROHS)

• CEI 79-2 (2ª Edition)

## CE PO ROHS

### **TECHNICAL FEATURES**

DIMENSIONS:

PACK DIMENSIONS:

GROSS WEIGHT:

NET WEIGHT:

 Power supply: CURRENT:

• OPERATIVE TEMPERATURE:

• RELATIVE HUMIDITY:

• ANALYSIS CAPABILITY:

1 SISMA CA or 1 SISMA CAPF sensor-module

80 x 85 x 40 mm (L x H x D)

through XS-Controller

<95% non condensing

INPUTS:

■ 1 SISMA CA or 1 SISMA CAPF sensor-module

- (L x H x D)

- mA (max) -25 ÷ +80 °C

bus Xensity

• CALIBRATIONS AND CONFIGURATIONS TROUGHT SERVICE SOFTWARE (XENSITY)

#### **PROJECT ICON**



# XENSITY

Peripheral for SISMA CA

p/n. **BR-XS-SMCAPU** Scale 1:1



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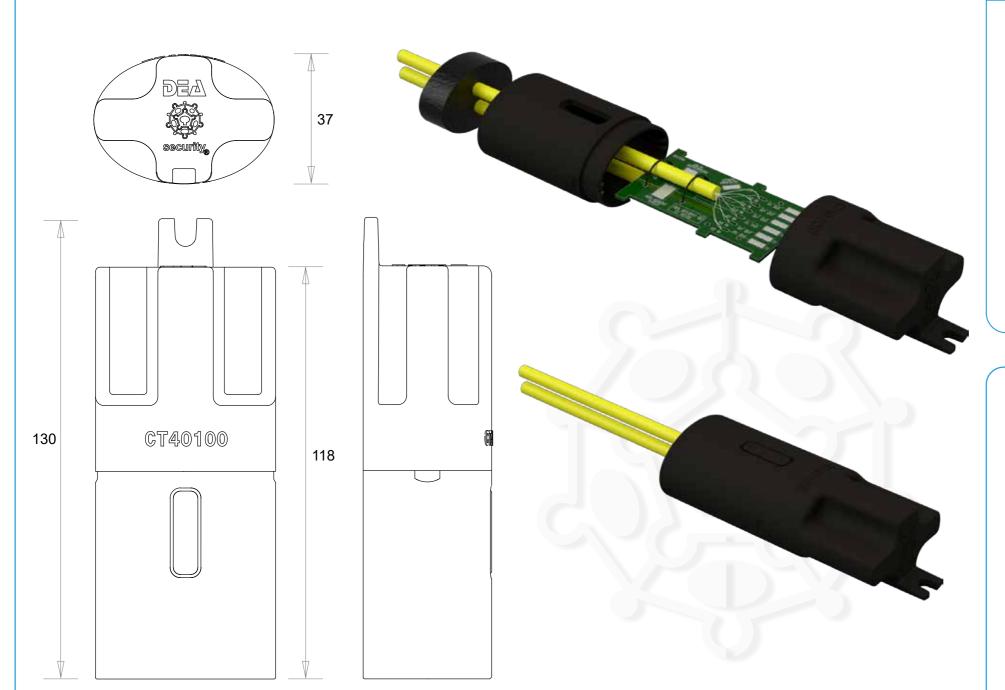
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SISMA

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### **TECHNICAL DATA**

### **COMPLIANCE**

In combination with sensor-modules:

- DIRECTIVE 2014/30/UE (EMC)
- EN 50130-4:2011
  EN 61000-6-3:2007+A1:2011

• DIRECTIVE 2011/65/UE (ROHS)



#### **TECHNICAL FEATURES**

• ENVIRONMENTAL CLASS:

IV (in accordance with EN-50130-5 standard)

• DIMENSIONS:

52 x 37 x 133mm (W x H x D) 93 g

• GROSS WEIGHT: • NET WEIGHT:

MATERIAL:

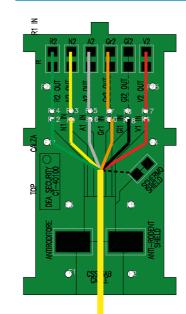
polyamide with added glass fibre PA6-GF30

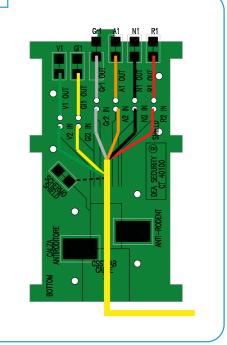
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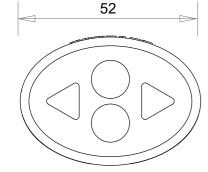
• OPERATING TEMPERATURE: -40 ÷ +80 °C

- RELATIVE HUMIDITY:
  - 0 ÷ 100% (after sealing with RP-100 **RESIN**)

### **CONNECTIONS**







### WARNING



The junction is used to connect the sensor-modules to the processing or peripheral boards. Each module is equipped with a pre-wired termination, however the TBX-SMCA termination can be purchased if pre-wired modules are to be customized/divided in the field.

### **PROJECT ICON**



## SISMACA/CAPF

Junction

p/n. **JBX-SMCA** 

Scale 1:1



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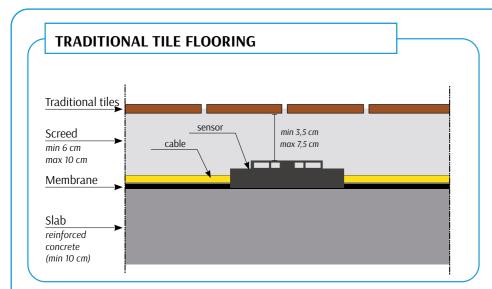
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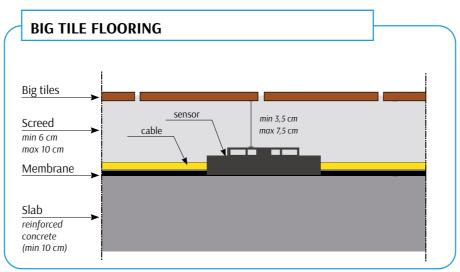
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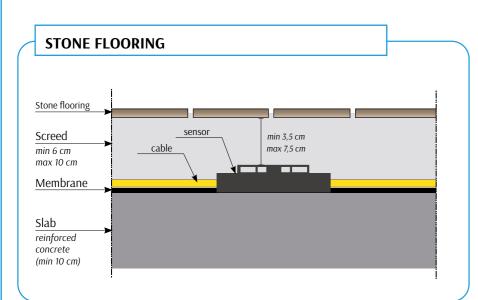
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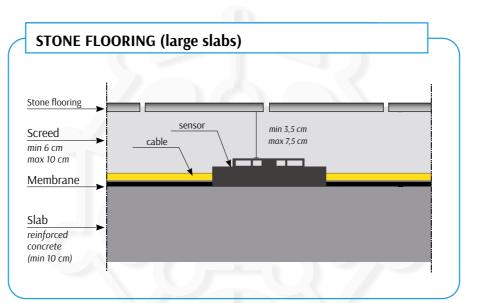
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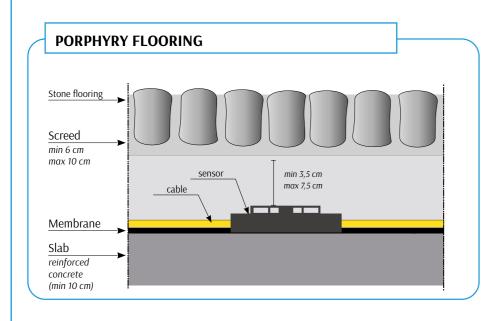














SCHEMES OF INSTALLATIONS

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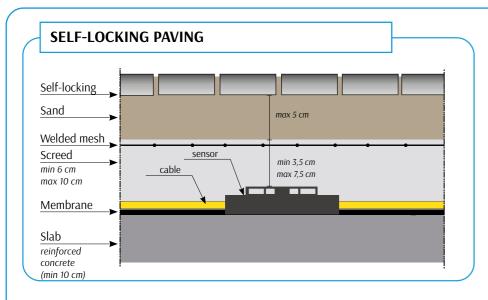
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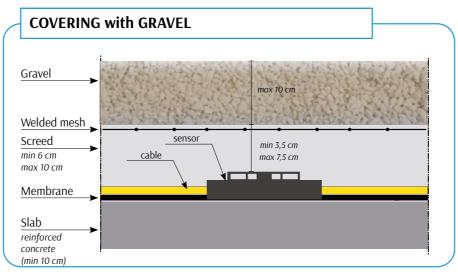
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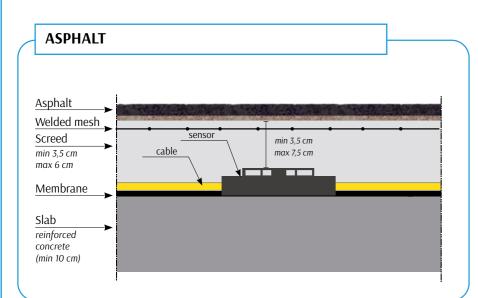
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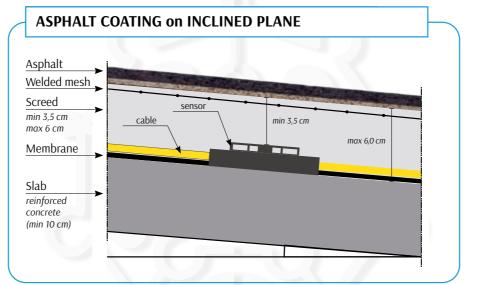
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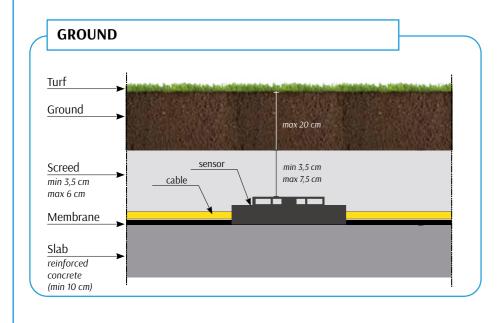












SISMACA
Flooring sections

SCHEMES OF INSTALLATIONS



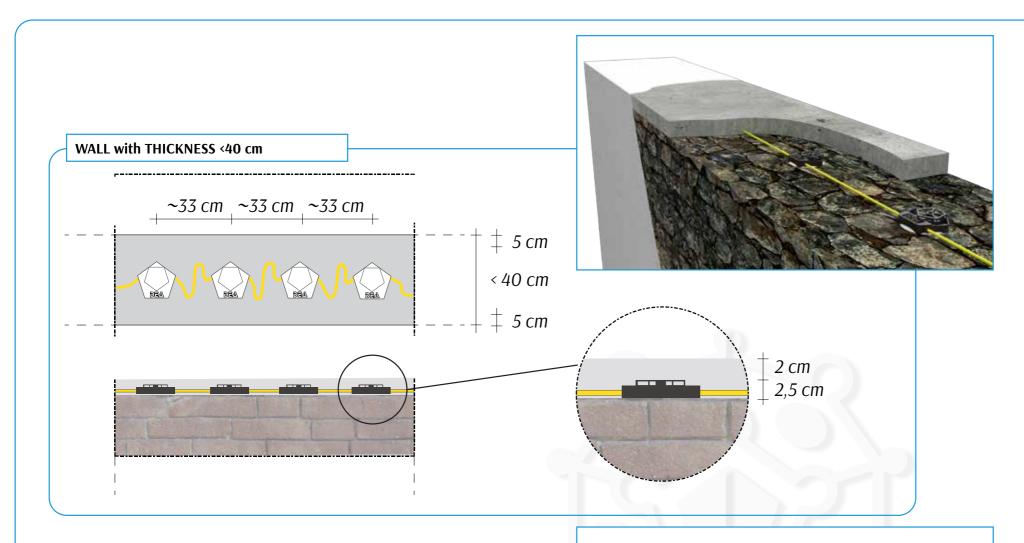
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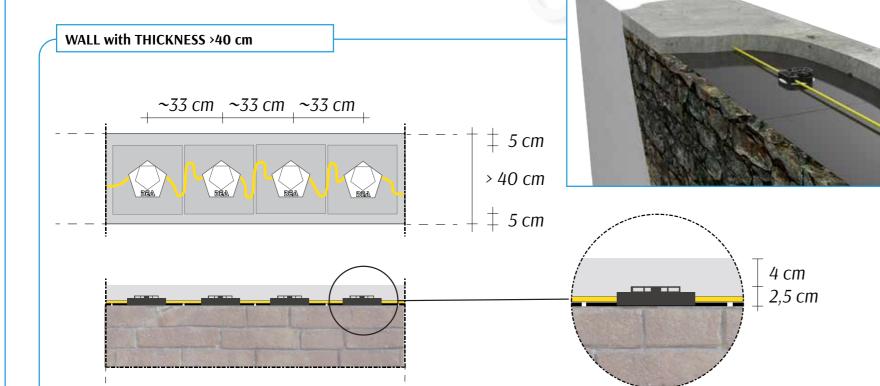
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### INSTALLATION

In this case, the sensors will be laid in line along the wall and not as the classic sensor-modules are installed. To allow maximum effectiveness in terms of coverage, it is necessary to have 3 sensors every metre. Furthermore, if the wall is less than 40 cm thick, the use of the elastomeric membrane is not necessary.

If the SISMA CA system is installed on walls with thickness greater than or equal to 40 cm, it is necessary to proceed with the installation of the elastomeric membrane, previously cutting it to a width equal to that of the wall minus 10 cm, thus leaving 5 cm on each side.

### WARNINGS

A

In any case, the sensor must be covered with a maximum thickness of concrete (screed) of 2 cm. Considering the fact that the thickness of the sensor is about 2.5 cm, an operating dimension of 4.5 cm will be reached, referred to the sensor support base.

# SISMACA

Protection of walls

### **APPLICATIONS**



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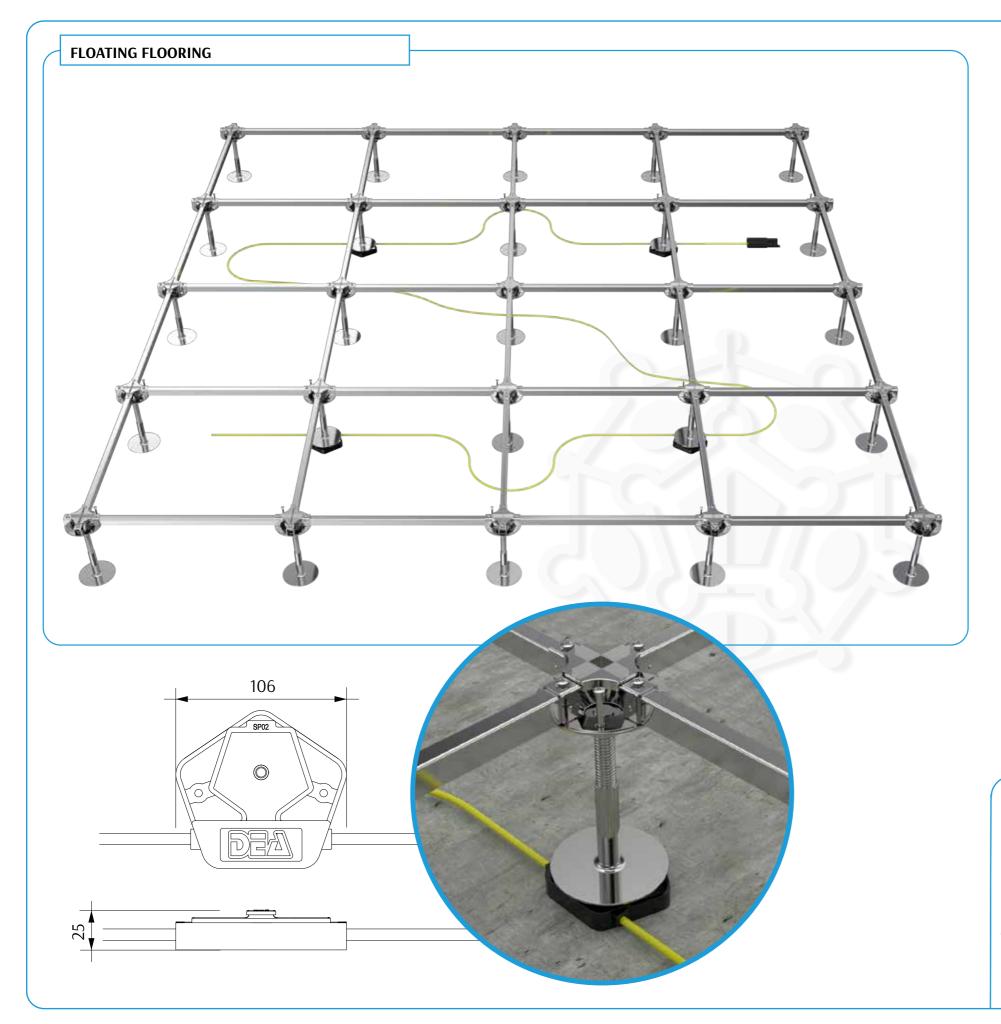
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## SISMACAPE

Sensor module for raised floors

### **APPLICATIONS**

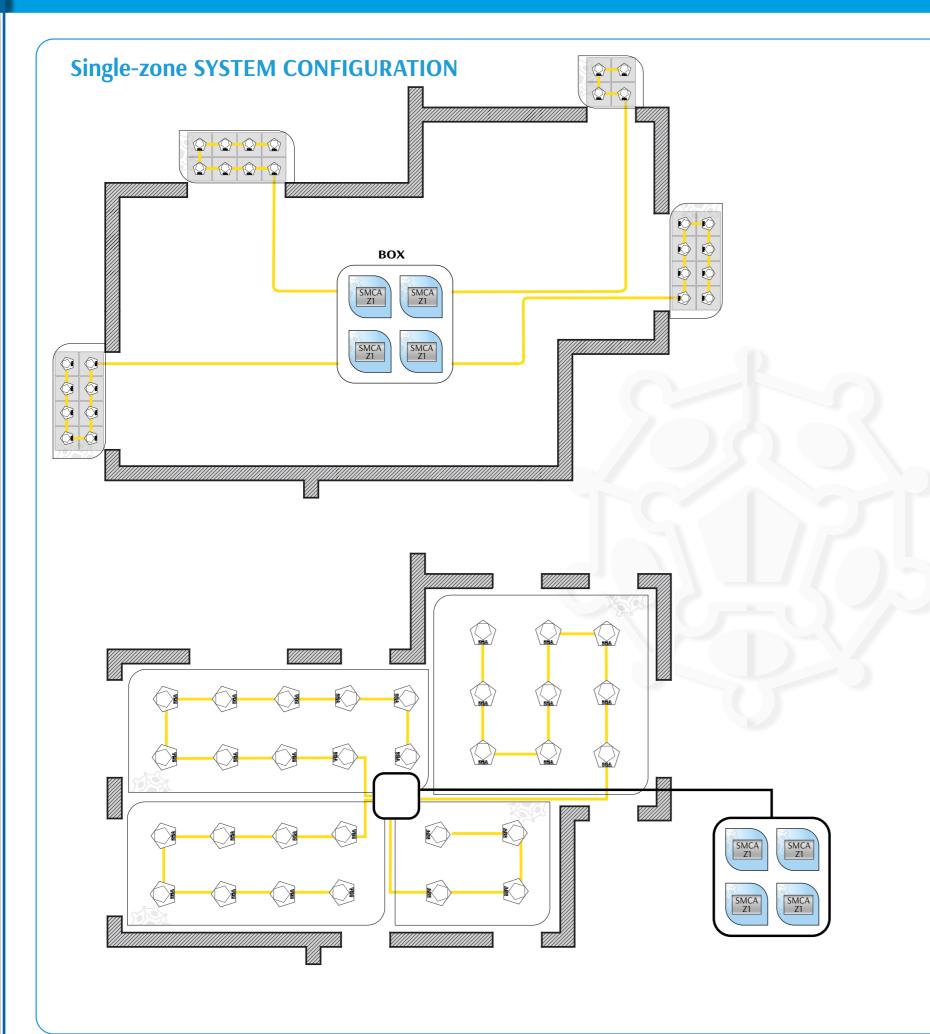


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## SISMACA/CAPF

Single zone system

### **CONFIGURATIONS**

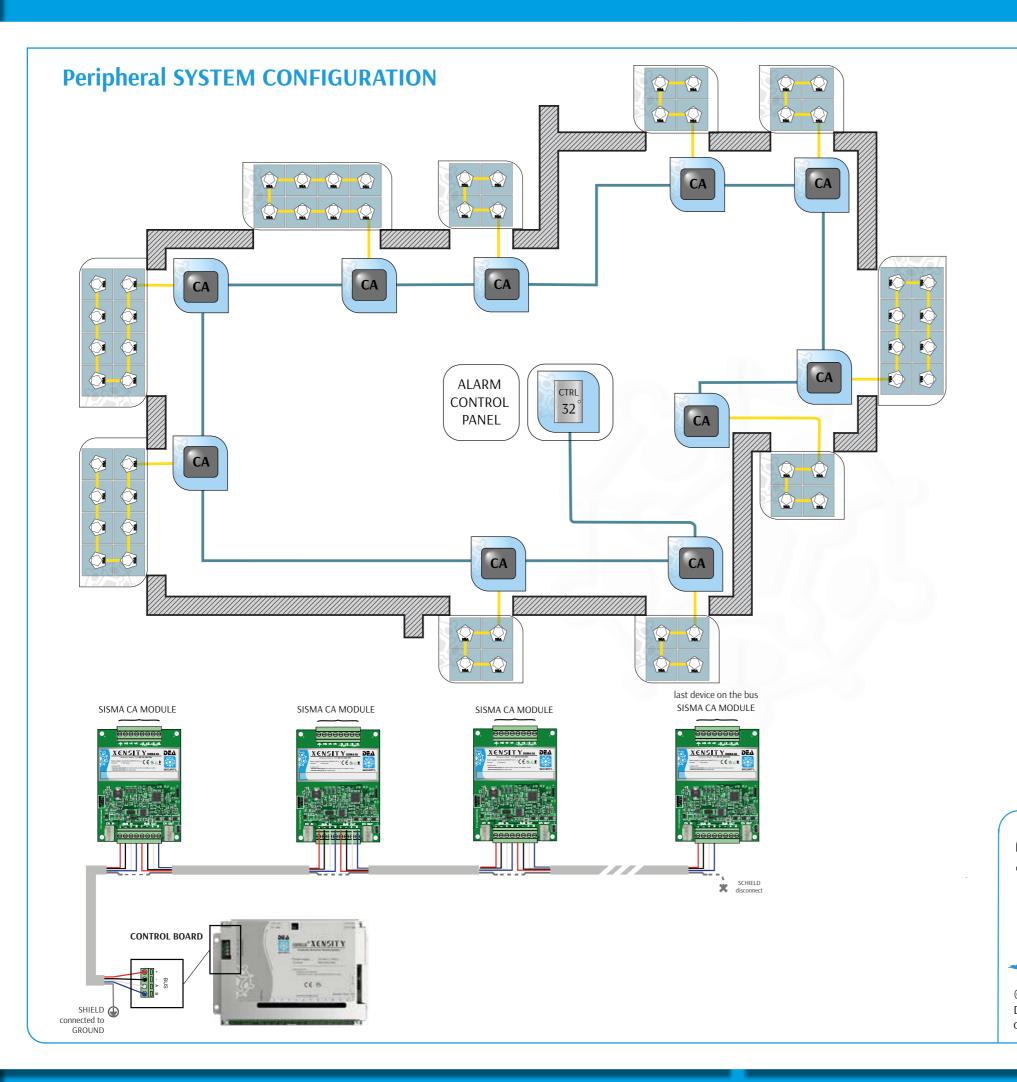
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SISMACA

SMCAPU in bus

CONFIGURATIONS

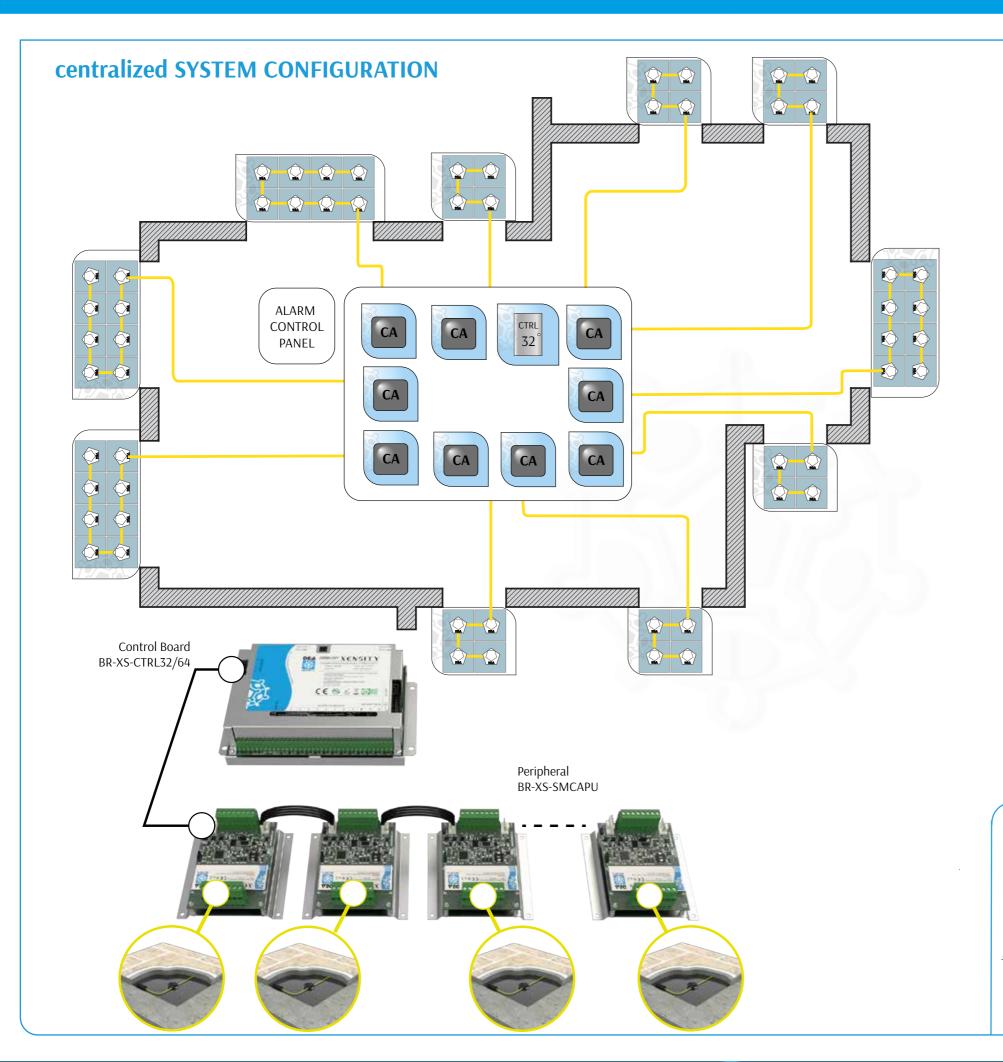


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## SISMACA

SMCAPU in central cabinet

### **CONFIGURATIONS**



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