

CABLE JUNCTION

To extend the sensor cable from the sensor-line to the processing board, to repair a damaged cable or add new sensors to the line, you MUST use JBX-P2P junction box provided by DEA. All junctions and terminations must be tin soldered, placed inside a proper case (JBX-P2P or TBX-P2P) and sealed with polyurethane resin RP-100. A printed circuit board is provided to help in junction/termination preparation.

Sensor line cable		CV-P2P
Red	---	Red
Black	---	Black
White	---	White
Blue	---	Blue



END OF LINE TERMINATION

The sensor string must be closed with a 100Ω resistor provided with fornita in dotazione alla terminazione stessa.

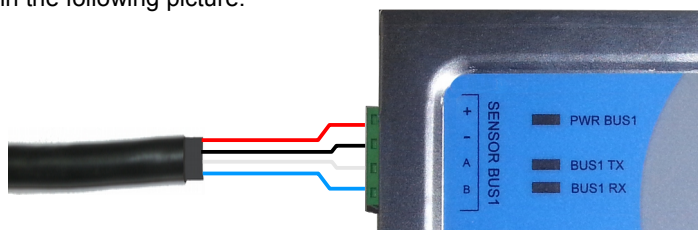
End of Line Termination		
Red	---	RED pad
Black	---	BLACK pad
White	---	WHITE pad
Blue	---	BLUE pad



WIRING TO SC-SRP2P-CTRL BOARD

Sensor string must be wired to SC-SRP2P-CTRL board using the SENSOR BUS (1 or 2) terminal board as shown in the following picture.

CV-P2P	SC-SRP2P-CTRL
Red	+
Black	-
White	A
Blue	B



SN-SRP2P SENSOR

TECHNICAL SPECIFICATION

edition February 2013 - v. 1.0.1



Directive 2004/108/CE
CEI 79/2 2nd edition - 2nd level



TECHNICAL FEATURES

Dimensions:	90 x 53 mm (Ø x h)
Operating temperature:	-40 ÷ +80 °C
Relative humidity:	0 – 100%
Coverage area:	max 3 x 3 m
Colour:	black
Case material	glass fiber reinforced polyamide, sealed with polyurethane resin, U.V., oil and scratch resistant
Fixing nuts material:	aluminium

DESCRIPTION

SN-SRP2P is an active *piezodynamic* detector able to protect electrowelded or chainlink metal fences from cut, sporadic cut, climbing, breaking through intrusion attempts and to detect thermal or magnetic tampering attempts. The sensor also detects a possible removal from the fence. Each sensor is provided with an integrated circuitry capable to identify the intrusion location and with a built-in selftest to verify the proper working of the piezodynamic transducer.

The case, glass fiber reinforced polyamide, is highly resistant to prolonged exposition to UV, abrasion and direct contact with crude oil and petroleum products. The detector is sealed with polyurethane resin to avoid moisture penetration.

FUNCTIONING

The sensor exploits *piezodynamic* technology (Dea's patent) to detect and convert to electrical signals also the smallest vibration.

The signals are preprocessed by the sensor itself and the result is transmitted to the SC-SRP2P-CTRL processing board, installed in the UC-SRP2P control unit. The SC-SRP2P-CTRL analyze the signal received and, if necessary, activate the alarm status.

AVAILABLE VERSION

SN-SRP2P sensors are provided in pre-wired strings with the following code:

- **LN50-SRP2P-300**, Serir P2P line composed of 50 sensors (black colour) with 3m span (actual span is 3,15 m), to protect a perimeter up to 150m.

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USE

The sensor must be applied in the middle of each fence panel, between two successive posts, to detect cut, climbing or breaking-through attempts.

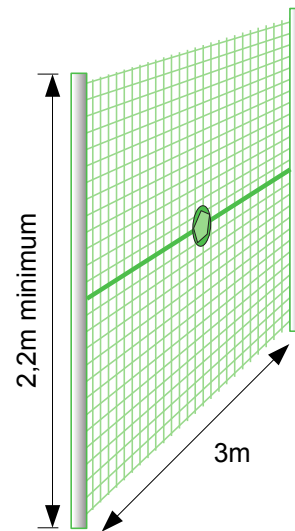
COVERAGE AREA

Coverage area changes according to the type and repair of the fence where the sensors are applied.

For an electrowelded, well taut fence, with a 50x50mm mesh and 3mm wire diameter, the coverage area of a single sensor is 3x3 m.

If the posts of the fence are not installed with a regular distance, but lower than 3 meters, proceed applying the sensor in the middle of the panel.

If the posts of the fence are installed with a distance greater than 3 meters, apply two detectors per panel, keeping, for each of the sensors, the same distance from the posts

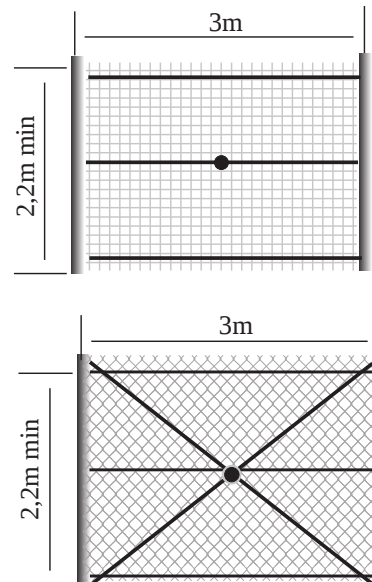


FENCE REQUIREMENTS AND STRETCHING

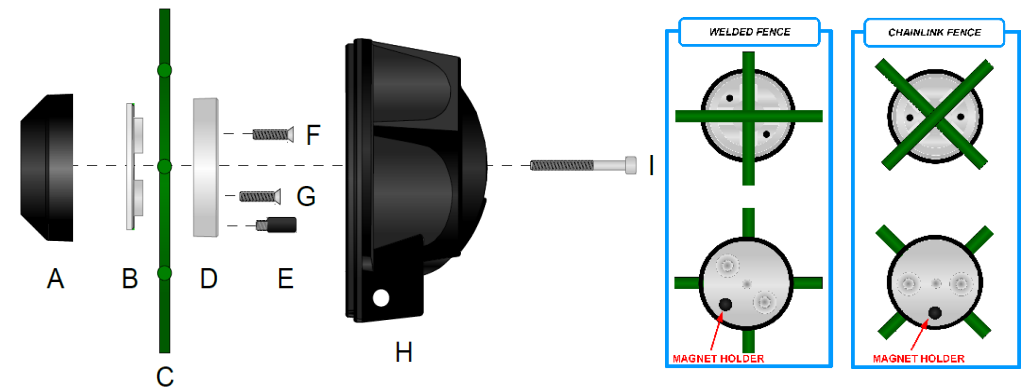
SERIR P2P system can be used to protect the most of the existing fences, but we recommend the use of an electrowelded fence with a 50x50mm mesh and 3 mm wire diameter,

SERIR P2P detects vibrations of the fence panel when subjected to cutting or climbing attempts. Since vibration's transmission is higher when the fence is well taut, we recommend the use of stretching wires between the posts, to which the fence must be fastened.

For chainlink mesh fences we recommend the use, in addition to the horizontal wires, of two diagonal tie-rods to give the fence the necessary tension to transmit vibrations to the detector.



SENSOR PLACEMENT



The sensor must be preferably positioned in the centre of the fence panel.

1. Place the toothed nut (B) on the external side of the fence (C). The teeth must protrude toward the inner side of the fence to avoid rotations.
2. Align the back of the smooth nut (D) with the toothed nut (B). The countersunk holes of the smoothed nut (D) must be aligned with the threaded holes of the toothed nut (B).
3. Insert the fixing screws (F, G) and screw them to B.
4. Screw the magnet holder (E) on the front side of the smooth nut (D).
5. Align the sensor's back (H) to the smooth nut (D) so that the magnet holder (E) can be inserted in the fitting space.
6. Be sure that nuts and magnet holder orientation is as described in the picture of the next page.
7. Place the sensor so that the *SERIR P2P* marking is horizontal with respect to the ground.
8. Insert the sensor fixing screw (I) in the sensor hole (H) and screw it to the threaded hole of the smooth nut (D).
9. Once the tightening has been completed, cover the toothed nut with the nut cap (A).

The connection cable must be fixed to the fence using tie wraps which must be placed every 30 cm. The cable must be fixed to the fence to avoid hitting the fence during, for example, wind gusts.

Cable excess (if present) must be fixed to the posts using tie-wraps. Tie wraps must be U.V. resistant and provided with stainless tooth.

Dea provides proper tie wraps in 100 pieces package (cod. FPM-100).