SPIRA-DET2   Two channels loop detector
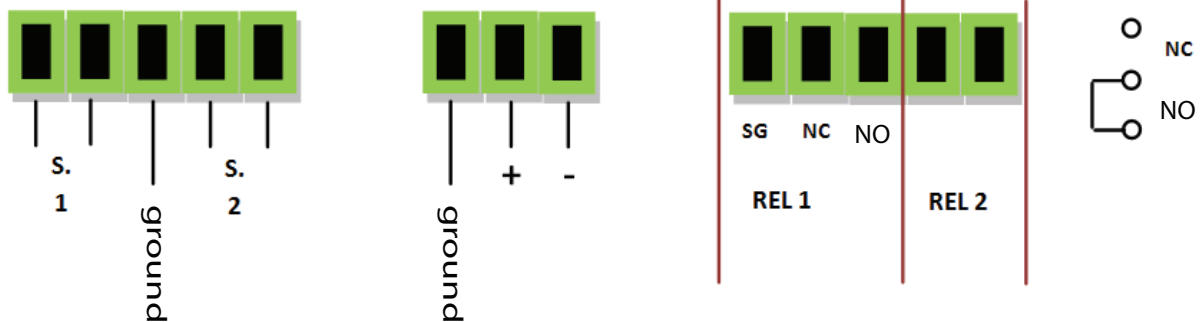

S. 1   ground   S. 2   ground   +   -

SG   NC   NO

REL 1   REL 2

NC
NO

Press simountaneously button 1 and button 2 for 3 seconds and you
enter in the menu (P.1 programm)

If you press again button 2 you get forward until P.9 (programm no.9) and the next
EP (settings memorization).

For example:

change the value of the loop 1 increasing the sensitivity changing from 8 (standard) and 5.
You can change the value of the timed output of the relay. From 0.0 (standard) to 2 s.

- Example of the first set up:
Press simultaneously button 1 and 2 for 3 seconds. Press button 2 until you see P.7 (see
menu). Button 2 go forward and button 1 reward.
Press simultaneously button 1 and 2 for 3 seconds to increase or reduce the value set up at
5 (button 2 go forward and button 1 rewind)
Press simultaneously button 1 and button 2 for 3 seconds (you will see P.7 again)

- Example of second set up :
*After setting up P.7 press button 1 and you can sse P.3 (see menu) button 2 forward and
button 1 go back.*
Press simultaneously button 1 and button 2 for 3 seconds. Increase and reduce the value
and set up at 2.0 (button 2 go forward and button 1 go back)
Press simultaneously button1 and 2 for 3 seconds (you will see P.3 again)

- Memorization of the settin up :
Go forward with button 2 until E.P is displayed. If you need to memorize of the settings
press simultaneously button1 and 2 for 3 seconds. (you will see two "n-dashes" in the
display) This is the last passage (E.P.) to memorize the setting up.

MENU'

P.1 P.1 DEACTIVATION OF THE DETECTORS (if not used) (standard 0)

0 = output not activated
1 = activate detectors 1 and 2
2 = Activate detector no. 1, deactivate detector no. 2
3 = Activate detector no. 2, deactivate detector no. 1

P.2 ACTIVATION / DIRECTION (STANDARD: 0)

0 = Activation of the relay: detector no.1 and relay no.1, detector no. 2 relay no. 2
1 = Direction command
2 = Unique activation: detector 1 or 2 activate relay 1 and relay 2

P.3 TIMED OUTPUT for relay 1 (standard: 0.0)

values from 0.0 a 5.0 = seconds   (relay time out)
0.0 deactivation of timed output

P.4 TIMED OUTPUT for relay 2 (standard: 0.0)

values from 0.0 to 5.0 = seconds   (relay time out)
0.0 deactivation of timed output

P.5 DETECTOR FILTER for LOOP 1 (STANDARD: 4)

values from 1 to 30 (response time)

P.6 DETECTOR FILTER for LOOP 2 (STANDARD: 4)

values from 1 to 30   (response time)

P.7 DETECTOR SENSITIVITY for LOOP 1 (standard: 8)

values from 03 to 25   (03+sensitivity 25-sensitivity)

P.8 DETECTOR SENSITIVITY for LOOP 2 (standard: 8)

values from 03 to 25   (03+sensitivity 25-sensitivity)

P.9 ACTIVATION TIMING WITH RESETTING THE LOOP WHILE DETECTING CARS (default:20)

values from 0 to 60 minutes. "0" deactivate this function.

DISPLAY MENU

After turning on the LOOP DETECTOR
Display 1 is associated to loop no.1 and the relay output 1.
Display 2 is associated to loop no.2 and output relay 2.

Segment **A** indicates a high frequency but loop with low inductivity

Segment **B** indicates an excellent frequency loop with excellent inductivity

Segment **C** indicates a low frequency but a high inductivity

i PRESENCE OBJECT SENSOR

o OUTPUT ENABLE

F ALLARM

Condition for alarm signal loop

1) The frequency is too high or too low (the test of the loop is activated)
2) It is activated only ONE loop and the direction function has been activated (P2=1). The output is not activated

TECHNICAL SPECIFICATION

- Power supply: 12 - 28 Vac/Vdc min 11,5 Vac/Vdc max 30 Vac and 38 Vdc
- Detector thermal fuse, protection against overcurrent
- Max power: <2W
- Loop inductivity : 40nH 1000nH, recommended 60.. 200 nH
- Relay 1 and 2: max current 500mA, power max 60 Vac or 4 Vac
- Relay 1 with switching (NC and NO)
- Relay 2 selection of NO/NC with jumper
- Operating temperature -10 + 60°C (no condensation)
- Dimensions: Policarbonated box126x65x36mm
- Options : 433MHz radio receiver
- ESD Protection (against electromagnetical interferences) output for loops (with ground connection)

- Plug-in terminal boards 381 step for flexible wire 1mmq
- Wire section 0.5mm

2 m

Braided cable in this part

Deep 20/30mm

1 m

4/5 loops

In case of 2 loops they must be installed at least at 1mt distance

1 m