OPENING DETECTOR, A CONTACT SHD2

Grade 2

1. DESCRIPTIVE NOTICE

1.1. GENERALITIES

- The SHD2 is a contact aperture detector consisting of two cases:
  - A self-protecting case containing an NF detection contact.
  - A case containing a permanent magnet.
  - The type of fastening: protruding
  - Security against fraud at the opening and snatching,
- The role of the set is to provide alarm information in case of opening to protect windows, doors, or other exits.
- The SHD2 detector is referenced by identification plates.
- It is delivered with two wire passes to achieve a good sealing at the wiring inputs.
- SHD2-SPC reference spacing plates, available separately, allow the sensor case and/or magnet case to be enhanced.

1.2. DESCRIPTION

- The white plastic case containing the magnet measures 65 x 10 x 10 mm (the weight of the product 8.7g)
- The white plastic case containing the detection contact for dimensions: 65 x 25 x 15 mm (the weight of the product 15.9g).
  It contains:
  - A self-protection contact (closed in the presence of the hood, opened in its absence) connects to two terminals.
  - A detection contact (closed off alarm, opened as an alarm) consisting of a reed bulb connected to two terminals.
  - Two free terminals allow the serial connections of several detectors.
  - A label glued to the hood is used to locate the connecting terminals and identify the device.

  A label stuck to the hood includes the “NF-A2P" logo, the manufacturer's logo, and the product reference.
- The SHD2-SPC spacing plates are made of white plastic.
- Sensor plate size: 65 x 26 x 3 mm
- Size of the magnet plate: 65 x 10 x 3 mm

label of the number from series

1.3. TECHNICAL FEATURES

1.3.1. Electrical features.

1.3.1.1. Detection contact:

- Cutting power: 10 VA
- Contact resistance: 100m Ω
- Lifespan: 100 million operations

1.3.1.2. Self-protection contact:

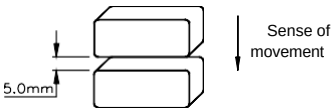
- Cutting power: 1 VA
- Contact resistance: 200m Ω

1.3.2. Environmental features

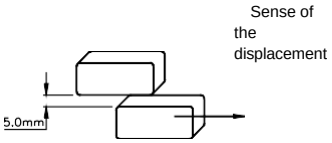
- Operating temperature: -25 degrees to 70 degrees Celsius
- Relative humidity: 6 cycles at 55 degrees Celsius and 95% HR
- Protection Index: IP43 IK04
- Environment Class II

1.3.3. Functional distances contact/magnet case (in mm) depending on the support.

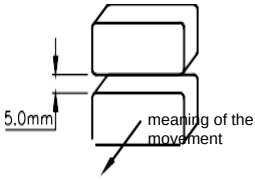
TRY there	Wood	SOFT IRON	SOFT IRON SHD2-SPC PLATE.
Min at closing	16	6	11
Max at opening (Typ.)	29	17	22



Y Axis	wood	SOFT IRON	SOFT IRON SHD2-SPC PLATE
Min at closing	9	5	6
Max at opening (Typ.)	11	16	14



Z Axis	wood	SOFT IRON	SOFT IRON - PLATE SHD2-SPC
Min at closing	25	7	10
Max at opening (Typ.)	36	13	18



NOTE: Contact changes IMMEDIATEMENT status when Distances reach the above defined distances.

2. INSTALLATION INSTRUCTIONS

2.1. CHOICE OF LOCATION

- The case containing the sensor must be fixed to the fixed part of the exit to be protected while the case containing the magnet must be fixed to the moving part.
- Both cases must be fixed on the same plane. If necessary, you can enhance the sensor case and/or magnet case with SHD2-SPC reference spacing plates (thickness: 3 mm per plate).
- The distance between the two cases should be greater than the minimum distance at the close of contact (see above).
- Contact and magnet should be equipped with a minimum gap between them and ideally no more than about half of the total operating gap. See drawings above for postponement and typical orientation. Ensure the central positioning of the magnet on the X and Z axis.

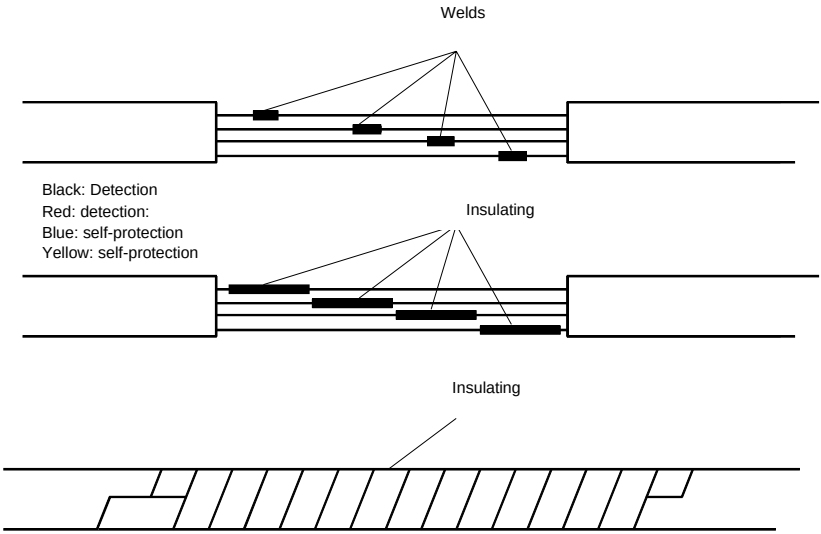
2.2. fixation

- Sensor box:
- Place the lid, removing both screws.
- Attach the support to any SHD2-SPC spacing plates using two, 3mm, steering the case so that the reed bulb is on the side of the moving part to be protected.
- Magnet Case:

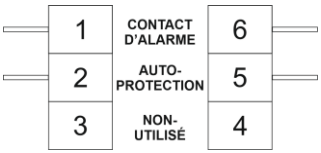
Attach the case to any SHD2-SPC spacing plates with two 3mm cooled head screws on the moving part next to the case containing the sensor.

The screws used must be protected against the effects of moisture, especially against oxidation. Zinc plated or chrome screws are recommended.

2.3. CONNECTING SCHEMATICS



2.4. CONNECTIONS (SEE SCHEMATICS)



- Use one or more cables 3.2 mm in diameter to four conductors.
- Pass the cables or cables into one or more of the wires provided.
- Check the label under the hood to find the connection terminals.
- The detection contact (markers spotted “1" and "6" on the label) is to be inserted in series in a detection loop of the alarm center.
- The self-protection contact (markers spotted “2” and “5” on the label) is to be cabled in series in the self-monitoring loop of the alarm center.

- The two free terminals (markers spotted “3” and “4” on the label) serving as points of connection to the wires returning from the detection loop and the self-protection loop of any detectors connected in series.
- For easy tracking, it is best to connect drivers to similarly run on the same line.
- Open the sprinkling and then insert the wires into it.
- Closed the lid of the detector with its two screws.

3. COMMISSIONING NOTICES

3.1. TESTING HOW DETECTION WORKS

With the installation’s wiring complete, opening the moving element protects by shD2 and finding that the associated power panel took into account the opening of the loop on which the detector is connected.

3.2. TESTING HOW SELF-PROTECTION WORKS

With the installation's wiring complete, open the hood of the SHD2 sensor case and find that the associated power panel considered the opening of the installation’s self-monitoring loop.

4. EMPLOYMENT NOTICE

The operation of the SHD2 overture detector is carried out from the alarm panel to which it is connected. The SHD2, placed at level 3, is not accessible to the user.

5. MAINTENANCE INSTRUCTIONS

The SHD2 aperture detector does not require any special maintenance. Its operation will be checked by the installer at the same time as that of the alarm plant to which it is connected.

AFNOR CERTIFICATION CErt CNPP.

www.marque-nf.com www.cnpp.com

Certification repository:
NF EN50131-2-6:2008, RTC 50131-2-6:2015, NF324-H58
Certificate number: xxxxxxxxxx