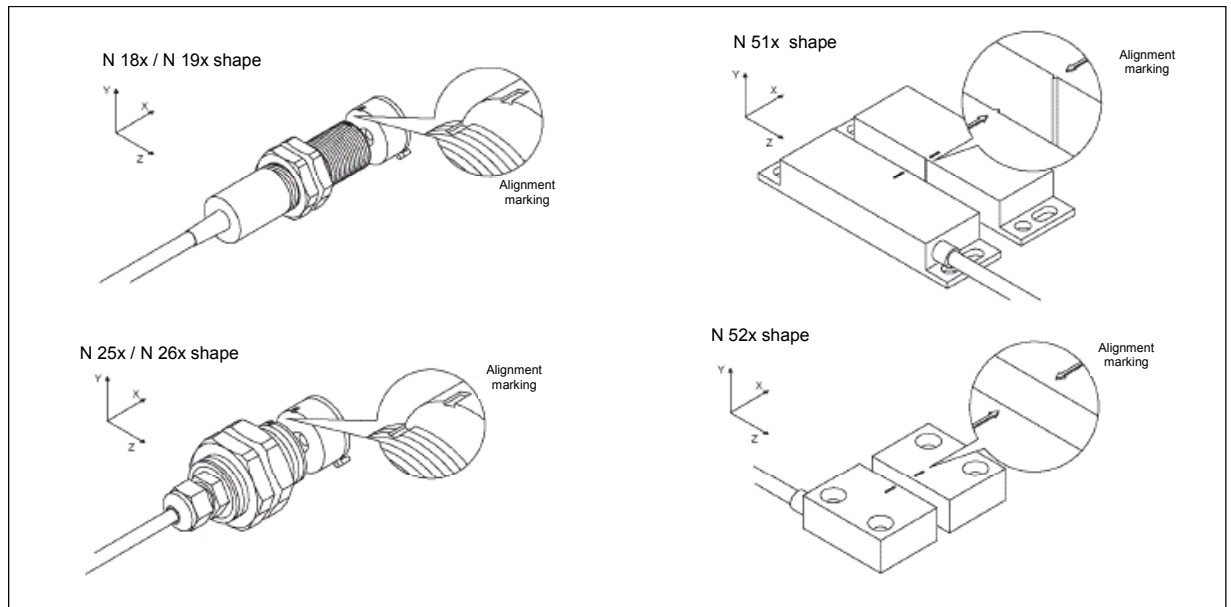


## MAGNETIC SAFETY SENSORS WITHOUT CONTACT

Magnetic safety sensors are used to control the closing of doors and protections on systems and machines. The safety system includes a magnetic sensor and a magnetic unit, connected to a control unit. The magnetic sensor is the part detecting the presence or absence of the coded magnetic unit in the active zone, by the change of the magnetic field, and transforms it into the corresponding signal to be sent to the control unit. This latter transforms the signal supplied by the sensor into a safety signal. The advantages of using a safety sensor without mechanic contact are the total absence of wearing and the protection against fluids and dust.

The sensor can be positioned behind plastic or diamagnetic walls, without drilling or changing the distance of activation.




The use of this system makes impossible to bypass the sensor by means of a non coded sensor. The corresponding magnets are coded to be activated in an univocous way. Serigraphic and mechanical references are present, to indicate the exact assembly position. The activation of the sensor is made approaching the magnetic unit according to the arrow direction on the sensor, and the magnetic unit, along the 3 axes "X", "Y" and "Z" (see figure).



### Technical data

- Material of body: SPS glass loaded
- Operating temperature -30°C to + 100 °C
- Protection degree: IP67
- Resistance to vibration and shocks: according to EN60947-5-2
- Outlet cable: Quadri-polar black AWG22 6 mm<sup>2</sup> of 200 cm length
- Activation magnet with aligning mark

**Models available**

| Type   | Number and type of outlet contact | Shape and dimension               | Nominal voltage (V) | Nominal power (W) | Nominal voltage (A) | Distance   |          |       | Magnet             |
|--|-----------------------------------|-----------------------------------|---------------------|-------------------|---------------------|------------|----------|-------|--------------------|
|  |                                   |                                   |                     |                   |                     | Activation | Deactiv. | Reset |                    |
|  GSN255 | 1 N.O.<br>+<br>1 N.C.             | Cylindric diam. 25mm threaded M25 | 24                  | 10                | 0,5                 | < 6        | > 13     | > 15  | GSM110 round       |
|  GSN514 |                                   | Rectangular dimension 87×25mm     |                     |                   |                     | < 6        | > 14     | > 31  | GSM144 rectangular |
|  GSN520 |                                   | Rectangular dimension 36×26mm     |                     |                   |                     | < 3        | > 9      | > 12  | GSM120 rectangular |

**Options**

- Safety relay for 1 sensor, category 4 , and up to 2 sensors category 3 type GSNC62
- Safety relay for 1 sensor category 4 and up to 6 sensors category 3 type GSNC66