

**Recommendations**

Use 4 wire flexible shield cable to install toxic gas detectors: 2 x 1.5 mm<sup>2</sup> for power supply and 2 x 0.25 mm<sup>2</sup> for A & B communications.

The maximum distance between Control Unit and latest detector installed should not be more than 1000 m long.

Do not perforate the detector housing, as it will lose its protection (IP65)

**Connecting**

Before connecting the system, number the detectors by SW1 according to the groups configured at the module line and identify the detector using the label provided to paste on the detector housing. (Det n°).

Before removing the detector stoppers connect the line module/s and wait until the system is stabilized (approx. 10 min). Keep the stoppers for later maintenance operations.

**Programming & Groups Configuration**

Programme the detectors following this table (SW1):

Detector N°	1	2	3	4
01	On	On	On	On
02	Off	On	On	On
03	On	Off	On	On
04	Off	Off	On	On
05	On	On	Off	On
06	Off	On	Off	On
07	On	Off	Off	On
08	Off	Off	Off	On
09	On	On	On	Off
10	Off	On	On	Off
11	On	Off	On	Off
12	Off	Off	On	Off
13	On	On	Off	Off
14	Off	On	Off	Off
15	On	Off	Off	Off
16	Off	Off	Off	Off

<b>1 GROUP</b>	Detectors N° *1 to 16			
<b>2 GROUPS</b>	Detectors N° *1 to 8		Detectors N° *9 to 16	
<b>4 GROUPS</b>	Detectors N° *1 to 4	Detectors N° *5 to 8	Detectors N° *9 to 12	Detectors N° *13 to 16

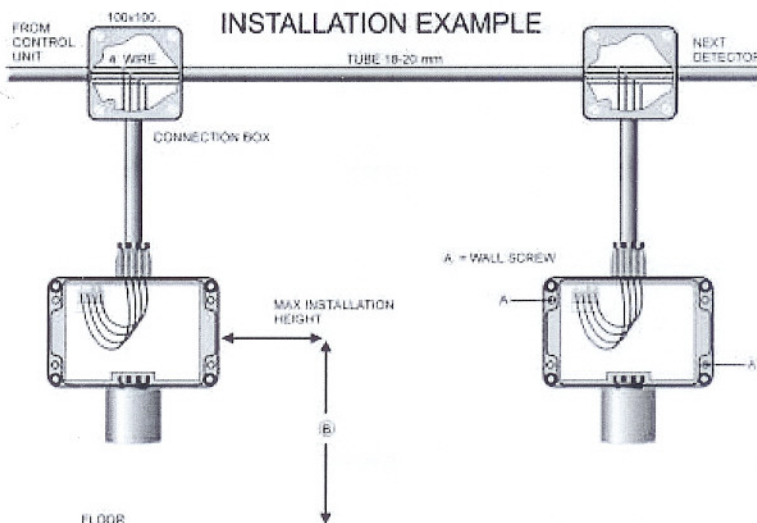
Configuring the groups: Start by the detector number marked with \* depending on the programmed groups (following different standards).

The number of detection groups programmed by module line is linked to the number of ventilation speeds or ventilation outputs of different standards (relay outputs). Module lines can be programmed in 1,2 or 4 detection groups, appart from French and Portuguese standard that only admit programming of 1 or 2 groups by module line.

Each parameters are independent by group, gas type, alarm level, ventilation level...each group can only measure one gas type.

**Installation example**

Gas	Installation Height (B) (from floor)
CO	150 – 200 cm
NO <sub>2</sub>	100 cm
O <sub>2</sub>	170 cm
H <sub>2</sub> S	100 cm
CL <sub>2</sub>	30 cm
SO <sub>2</sub>	30 cm
NO	100 cm
HCL	100 cm



**DO NOT PERFORATE THE DETECTOR HOUSING, AS IT WILL LOSE ITS PROTECTION (IP65)**