Sensigas®

EW40 Gas Detection Systems

MED/3.54 (IEC 60092-504) certified

MID40

Remote Alarm Module

for EW40 System

Remote Alarm Module connected to UCE40MPA.. via BUS.
12Vdc power supply.
N.4 voltage free inputs for acquiring digital inputs/states from the field.
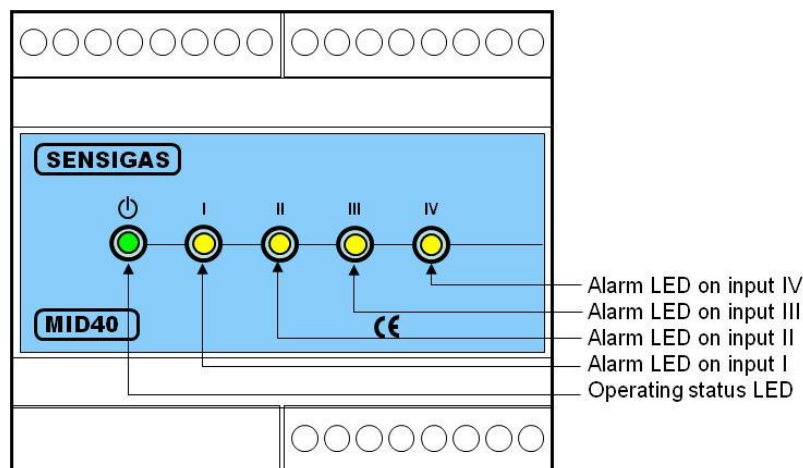**Front panel LEDs for module operating status and input status indication.**

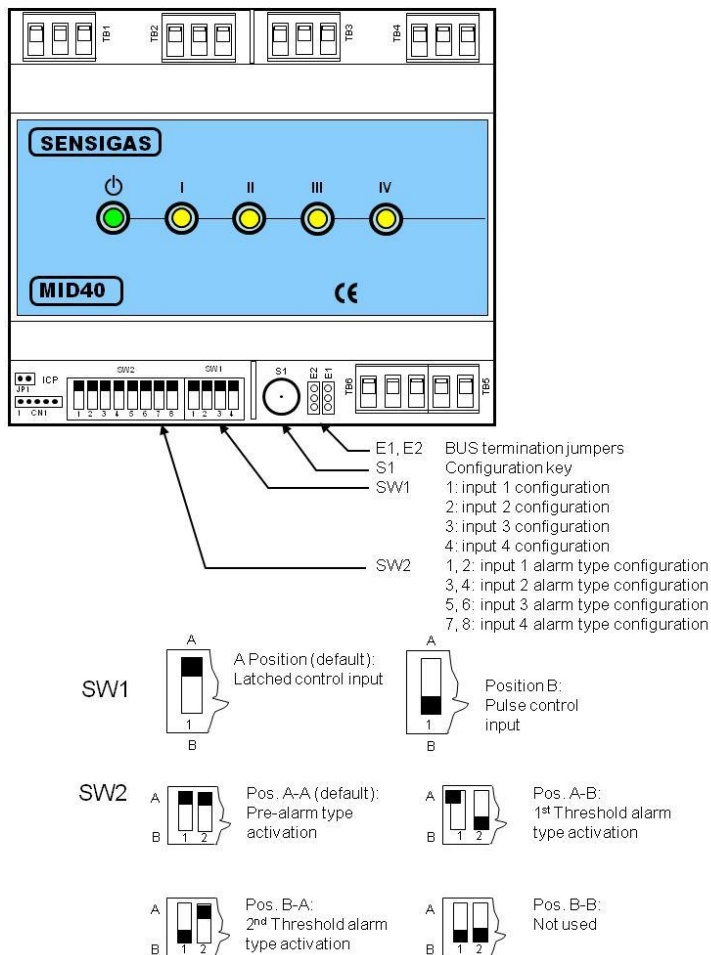|	
Use	The Alarm modules are used for remote monitoring of alarms present in the system and detectable via digital input.
	Each module has four independent inputs for voltage-free contacts that can be either latched (switch) or not latched (button). Each input has an alarm type assigned to it in order to activate any RMs assigned to it.
Ordering	When ordering only indicate product code: **MID40**
Operation	The type of input contact (latched/button) is selected through a way of the 4-way SW1 DIP switch.
	The type of alarm to assign to each input is selected through SW2 DIP switch (one pair for each input: SW2.1 and SW2.2 for input 1 and so on; the possible types of alarm are: Pre-alarm, 1st Threshold alarm, 2nd Threshold alarm.

Alarm LED on input IV
Alarm LED on input III
Alarm LED on input II
Alarm LED on input I
Operating status LED

Technical data	Power supply	10…14Vdc / 1W max
	Environmental cond.	
	Transportation	Temperature -20°C... +70°C / Humidity < 90% R.H.
	Operation	Temperature -20...+55°C / Humidity < 90% R.H., non condensing
	Protection degree	IP20 (IP40 if mounted in electric board)
	Alarm inputs	N. 4 voltage free contact settable for: - Pre-alarm - 1st alarm threshold - 2nd alarm threshold conditions.
	Operation logic	By UCE40MPA Central Unit: - Positive (factory preset): input close = no alarm - Negative: input open = no alarm By local dip switch SW1 for each input: - Position A (factory preset) = Latched control input - Position B = Pulse control input. By local dip switch SW2 for each input (view figure below)
	Optical signals	GREEN LED = Module status - Fast blinking = module not configured - Slow blinking = module configured (1 pulse every 5s) - This LED can be forced steady on to visually identify the module. RED LEDs = Digital Inputs status (ON = input close in short circuit).
	User interface and configuration	

E1, E2   BUS termination jumpers
S1   Configuration key
SW1   1: input 1 configuration
         2: input 2 configuration
         3: input 3 configuration
         4: input 4 configuration
SW2   1, 2: input 1 alarm type configuration
         3, 4: input 2 alarm type configuration
         5, 6: input 3 alarm type configuration
         7, 8: input 4 alarm type configuration

SW1 — A Position (default): Latched control input / Position B: Pulse control input

SW2 — Pos. A-A (default): Pre-alarm type activation / Pos. A-B: 1st Threshold alarm type activation

Pos. B-A: 2nd Threshold alarm type activation / Pos. B-B: Not used

CE Conformity

0474 / xxxx (manufacturing year)
CERTIFICATE n. MED327120CS

MED Directive / Standards	MED 2014/90/EU / IEC 60092-504
EMC Directive / Standards	EMC 2014/30/EU / EN50270 / EN 61326-1
LVD Directive / Standards	Not Applicable
Product Standard	EN60079-29-1

| **Installation**	The MID40 (AM) alarm modules must be mounted on DIN rails, whether they are fitted to a mounting plate or panel mounted.

In the latter case, the detector must be wired before fixing, since it is no longer possible to access the terminal boards after the panel is fixed.

Wall mounting   Prepare and horizontally attach a DIN rail no shorter than 100 mm to the wall. Then place the module at the top of the rail and slowly but firmly push downwards until it clicks into place.
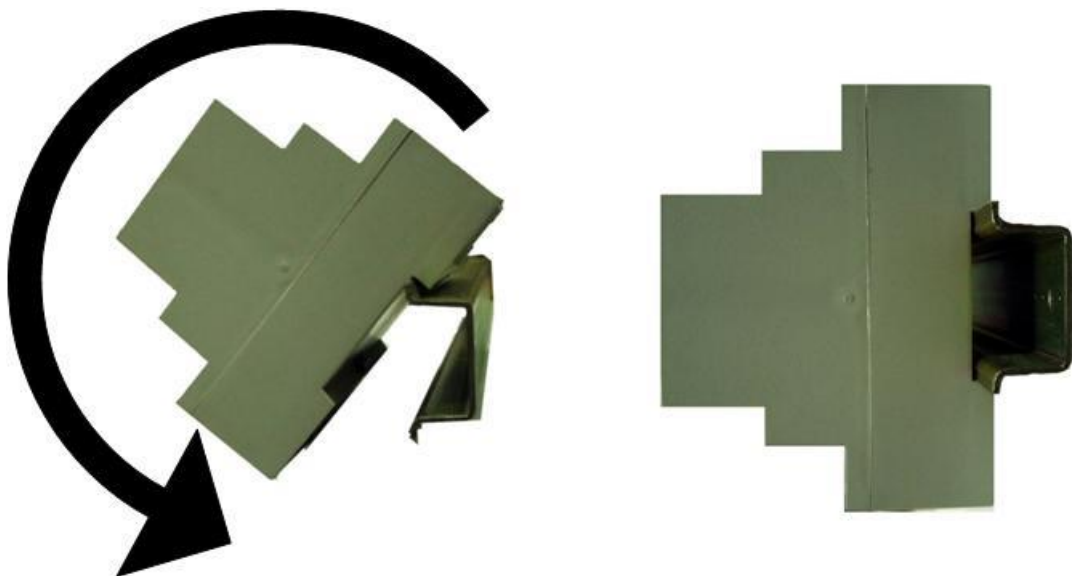
To unhook the devices from the support rail, insert a small screwdriver into the slot of the spring situated at the bottom of the enclosure.

Flush panel mounting

Mount as follows:

- Prepare a piece of DIN rail no shorter than 160 mm with holes on the side to pass through dedicated tie rods
- Knock out a 46x106 mm opening on the front panel of the electric board and drill two holes on the sides for the tie-rods to pass through (line them up with the DIN rail holes)
- Fit the module on to the DIN rail as previously shown
- Use the dedicated tie rods to fix the whole thing to the panel.
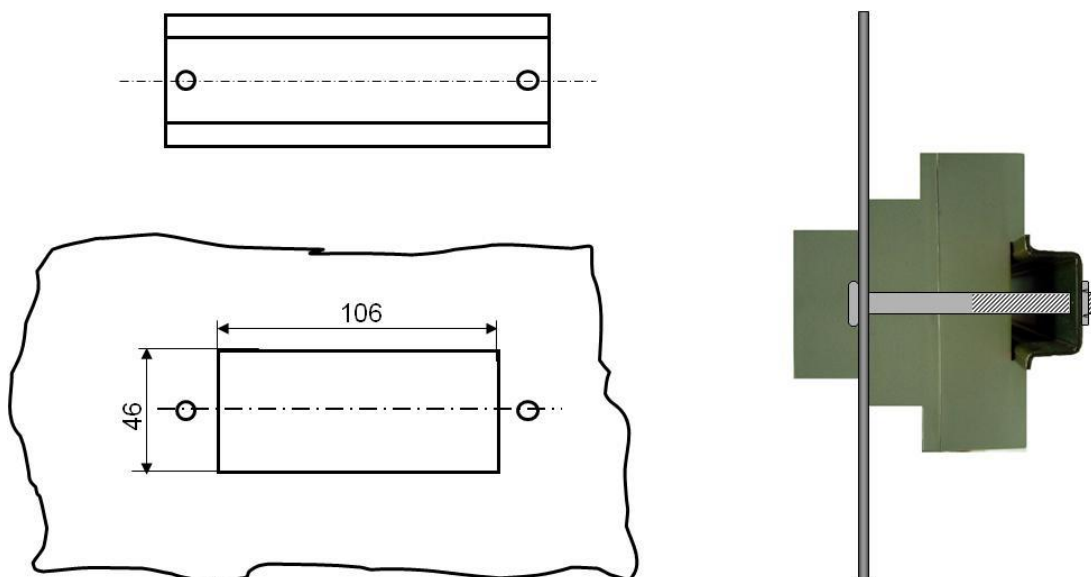
Wiring

As regards the connection of the free potential digital inputs of the AM, make the electrical connections after identifying the terminals available; in particular:

S = Cable Shield (to use and connect only in the event of potential electromagnetic interference that could couple in the cable route)

-, + Terminals for connecting the free potential contact.

Use SW1 DIP switch to configure the type of each input (pulse or steady).
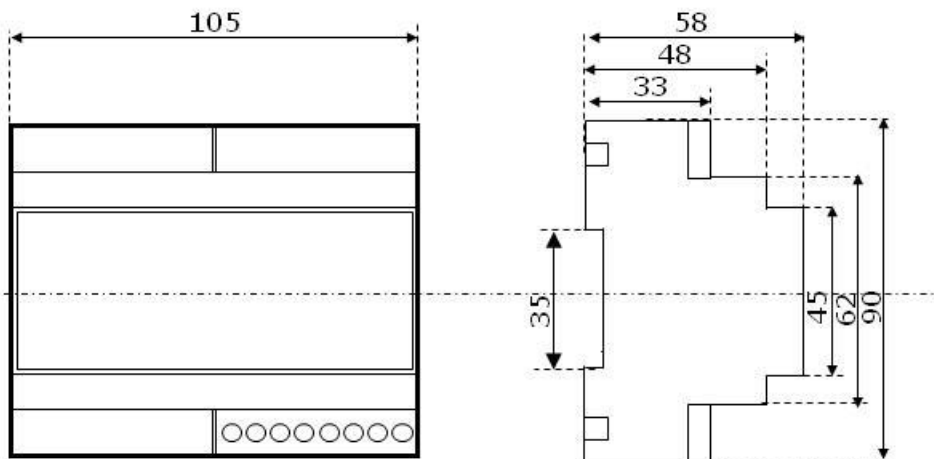
Use the SW2 DIP switch to configure the type of alarm (pre-alarm, threshold one or threshold two) assigned to each input.
To configure these DIP switches, see the relative chapter of the technical specifications and the UCE40MPA user's manual.
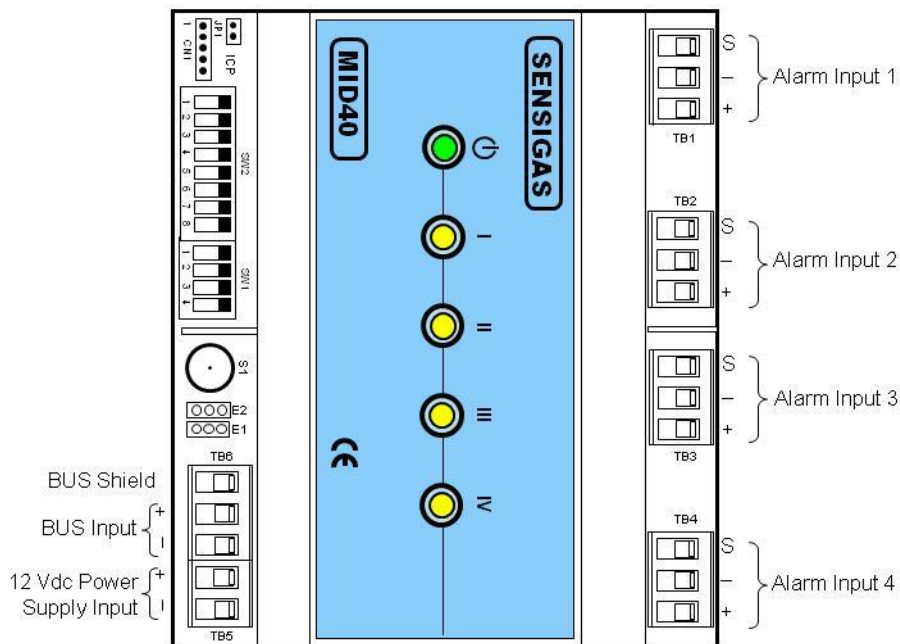
Dimensions and Weight

Weight 0,2Kg / dimensions (in mm) as follow:

Environmental Compatibility and Disposal

This product has been developed and built using materials and processes that take into account the environmental issue. Refer to the following notes for disposal of the product at the end of its life, or in case of its replacement:

- for the purpose of disposal, this product is classified as an electrical and electronic device: do not dispose of it as household waste, in particular as regards the printed circuit
- comply with all local laws in force
- facilitate the reuse of basic materials as much as possible in order to minimize the environmental impact
- use local depots and waste recycling companies, or refer to the supplier or manufacturer, to return used products or to obtain further information on environmental compatibility and waste disposal

The product packaging is reusable. Keep it for possible future use or in case of returning the product to the supplier.

Due to our policy of continuous product improvement, specifications are subject to change without notice.