

# EXPANSION PORT SETUP FOR A SIMPLE E-STOP & MAGNETIC DOOR SWITCH

For information on the initial electrical connections that are required for this configuration, see the **Basic Setup** instructions for the case that uses the expansion port at [www.sensing.net/asi-solutions](http://www.sensing.net/asi-solutions)

## Expansion Example 2 — Simple e-stop and magnetic door switch setup with strong bounce

Depressing the e-stops will deactivate safe output OSSD1. Once the e-stop has been released, it must be activated (reset) by pressing the green LED pushbutton. If the doors are closed, the safe output OSSD1 will activate.

Opening any one of the doors will deactivate safe output OSSD1. When all doors are closed, the safe output OSSD1 will activate automatically (no reset) provided the e-stop has been released and reset earlier.

For this example, the magnetic door switches have been configured to allow short-term single-contact opening of up to 200 ms (this time is user selectable). This is frequently necessary on small access doors used to cover conveyor systems in the food industry.

The reset button must be pushed for at least 50 ms but no longer than 2 sec.

- One illuminated dry-contact e-stop connected to an AS-Interface G10 safety module
  - o E-stop has been assigned ADR=1
  - o E-stop LED is used to indicate that the e-stop has been depressed (i.e., is in the safe state)
- Two AS-Interface intelligent safety magnetic door switches
  - o Magnetic door switch 1 has been assigned ADR=4
  - o Magnetic door switch 2 has been assigned ADR=5
- One AS-Interface LED pushbutton module
  - o Pushbutton module has been assigned ADR=9A
  - o Green button is used as a reset input
  - o Green button LED flashing indicates that the system is in a resettable state (i.e., the e-stop is in the released state and all doors are closed)

