

## EC DECLARATION OF CONFORMITY

This document is the conformity declaration concerning safety switches and relays, conform to the Machine Directive 2006/42/CE and the Directive 2004/108/CE.

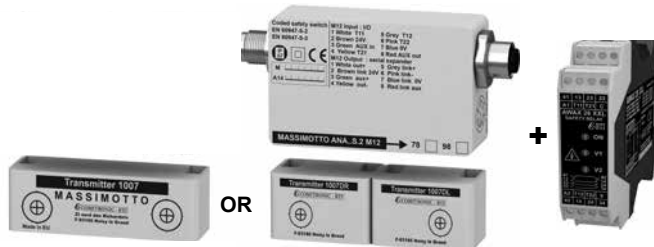
### SAFETY SWITCHES

We hereby certify that the hereafter described safety components both in its basic design and construction conforms to the applicable European Directives.

Name of products :

| Range                | Safety Standards | Conformity |
|----------------------|------------------|------------|
| MASSIMOTTO ANA 78S.2 | ISO13849-1       | CE         |
| MASSIMOTTO ANA 98S.2 | ISO13849-1       | CE         |

Performance Level (PL) = e  
 Safety category = with AWAX  
 MTTFd = 334 years  
 Checking period=1/year  
 Coding level : low acc. ISO 14119  
 Average level on demand



#### Description :

Coded safety-sensor with process Acotom<sub>2</sub><sup>®</sup> principle in combination with the AWAX serie of safety-monitoring modules from COMITRONIC-BTI or an equivalent safety-oriented control system fulfilling the requirements of the EN 60947-5-3 and ISO 14119.

Person authorized for the compilation of the technical documentation :

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U.S. market : All products are manufactured with UL components and 94VO housing

Place and date of issue : Noisy, december 18, 2014

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President

PROCESS ACOTOM<sup>®</sup>



# Datasheet of the MASSIMOTTO ANA..S.2

Thank you for your confidence in BTI products.  
This product has been designed and manufactured to the highest quality standards.

## 1. Application

MASSIMOTTO ANA..S.2 is a coded magnetic switch equipped with our ACOTOM<sub>2</sub>® process. It is designed to detect the opening of doors of dangerous areas. It fully fulfils the high requirements of industry. It has 2 NO static control lines controlled by a safety module of the AWAX series. Auxiliary NC or NO line is compatible with PLC. A special transmitter (1007D) allows to use the single sensor on a door with double hinge door.

## 2. Fixing and wiring

Having two fixing holes and a screw cover, the two elements of the switch are easily fixed with 4mm diam. screws (width of the head max. 8,5 mm, non milled head) with provided ZU4 washers. This switch has been especially designed to be compatible with different systems of aluminium profiles that are present in the market. The anti-tamper screws and tool are optional. The receiver is equipped with two M12 8 points connectors (one male connector for input and one female connector for output). Connectors are IP67.

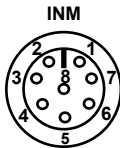
## 3. Functioning

Targets are printed on the sensitive faces. The MASSIMOTTO ANA..S.2 is supplied with 24Vac or 24Vdc. When the targets of the receiver and transmitter face each other up from 0 to 8mm, the safety lines are closed and the auxiliary line is open. Opening of a door causes the opening of two safety lines and the fault is signalled to AWAX module. The auxiliary line informs the automaton about the fault by sending the supplying voltage.

## 4. Inlet wiring

### Connecteur mâle I/O:

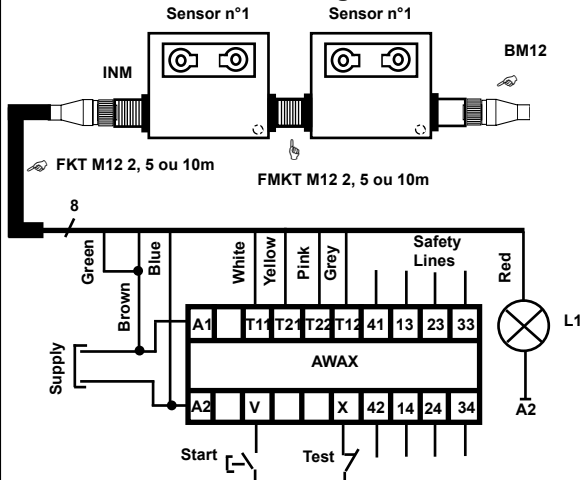
- 1 White T11
- 2 Brown 24V
- 3 Green AUX
- 4 Yellow T21
- 5 Grey T22
- 6 Pink T22
- 7 Blue 0V
- 8 Red AUX



## 5. Caractéristiques techniques

|                    |                                     |                 |
|--------------------|-------------------------------------|-----------------|
| Power Supply       | 24 VAC/DC - 15% / +10% 50/60Hz      |                 |
| Current            | 30 mA DC / 70 mA AC                 |                 |
| Safety Lines       | 24 VDC / 800 mA @ 25°C              |                 |
| Auxiliary Line     | 78S: PNP NF/250mA 98S: PNP NO/250mA |                 |
| Range / Hysteresis | 10mm / 2mm / lateral +/- 7 mm       |                 |
| Temperature / IP   | -25 °C / +60 °C / IP67              |                 |
| Size L x l x h     | Emitteur                            | Receiver        |
|                    | 25 x 77 x 25 mm                     | 48 x 77 x 25 mm |
| Weight             | 80g                                 | 100g            |

## 6. Wiring



## 7. Size

