COMITRONIC - BTI

MANUFACTURER OF SAFETY MATERIAL
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CE

RoHS Compliant

REACH CONFORMITY

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	Approvals/conformity
ANATOM M18	ISO13849-1	CE
ANATOM 78S	ISO13849-1 UL508 NKCR/C22.2 14M91	CE/UL/CSA/TÜV
ANATOM 98S	ISO13849-1 UL508 NKCR/C22.2 14M91	CE/UL/CSA/TÜV
ANATOM 78S OX	ISO13849-1 UL508 NKCR/C22.2 14M91	CE/UL/CSA/TÜV

Performance Level (PL) = e
Safety category = with AWAX
MTTFd = 334 years
Checking period=1/year
Type 4 acc. ISO 14119
average level on request

Description :
Coded safety-sensor with process Acotom$_2$® 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 :
Christophe PAYS
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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

Authorised signature
Michel Conte
President

PROCESS ACOTOM®

BTI

ANATOM78S/98S technical data sheet V3.4

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

1. Application field

The ANATOM is an electronic coded switch using our ACOTOM.® process. When it is connected to an AWAX safety module, it detects the opening of guarddoors on dangerous machines. Housed in two polycarbonate housings (transmitter and receiver), it provides two independent and static NO lines, free of potential and isolated from the decoding system for more safety. Moreover, it provides a PNP contact, which indicates the state ot the switch.

2. Mounting and wiring

With two square legs, the two parts of ANATOM can be easily fixed with diam. 4mm screws (ZU4 washers provided).
Optional special anti-tamper screws and tools are available.
The receiver is fited out with a diam. 5mm and length 3, 6 or 12m PVC multiwire (other lengths on request).

3. Operation mode

The ANATOM is energised with 24v AC or DC voltage. When the two targets of the receiver and transmitter are facing each other, and the code recognized, the two NO lines close and the auxiliary opens. The led lights on.
At the contrary, the led remains off and the auxiliary line closes. To avoid damages to the square legs, 1mm distance between the two parts is necessary . The swithcings distance ranges up to 10mm.
Detection through 6mm stainless steel or polycarbonate wall.

4. UL additional information

Wiring	60/75°C copper only
Size of wires	24AWG
Clamping force	0,68Nm
Enclosure type 1/70°C ambiant	24V to be provided by class 2 supply or transformer protected by a listed fuse rated 4A max

5. Safety warning

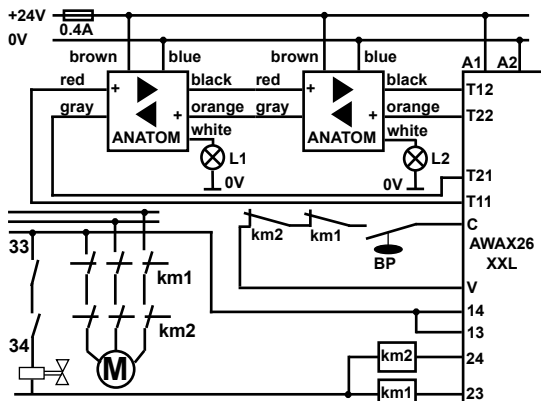The installation has to be periodically checked.

6. This Information concerns only European Union

According to the standard EN 50178, the power supply must be isolated for a test voltage of 1800Vac applied, or the device must withstand a surge voltage of 4000V in case of overvoltage.
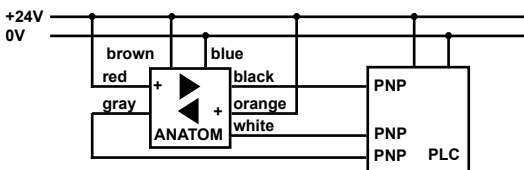
7. Technical characteristics

Power supply	24Vac/dc - 15% / +10% 50/60Hz	
Power consumption	30mA DC / 70mA AC	
Safety contact	24vDC / 800mA @ 25°C	
Auxiliary contact	78S: PNP NF/250mA 98S: PNP NO/250mA	
Sw. dist/ Hysteresis	10 mm / 2 mm / lateral +/- 7 mm	
Temperature / IP	-25 °C / +60 °C / IP67-68 / IP69K SS316L	
Size L x l x h	Transmitter 92 x 17 x 25	Receiver 92 x 25 x 25
Weight	Inox 190g PA6 80g	Inox 190g PA6 100g

8. Typical wiring

9. Wiring with a PLC

10. Dimensions