

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.

ELECTRONIC SAFETY SWITCHES

Range	Safety Standards	Approvals/conformity
EPINUS SERIE	ISO13849-1/EN954-1	CE

Performance Level (PL) = e
 Safety category = with AWAX
 MTTFd = 360 years
 CCF = 90 %
 TM= 20 years
 Checking period=1/year
 Checking after 3 months of
 not using
 Type 4 acc. ISO 14119
 average level on request

* uncomAtractual picture



Safety warning : The installation has to be periodically checked.

All switches EMC Standards :
 EN 61000-6-2 : 2006, EN 61000-6-4 : 2007

All switches : EN 60947-5-3

Test conditions :
 Switching Current = 200 mA/24 VDC
 Power Supply = 24 VDC
 Ambient temperature = +25 °C

The new requirements do not impact the product. Low-voltage switchgear and controlgear including dimensional standardization is EN 60947-5-1:2004/A1:2009

This range of safety switches is designed to replace mechanical safety switches used on doors and crancases of dangerous machines. It uses our process ACOTOM® or ACOTOM₃®.

All the safety switches and safety modules are designed and manufactured following UL508/CSA C22.2 regulation.

Safety switches and safety modules must be used following diagramm and directives described in our data sheet.

* Process Acotom₃® approved by TUV.

FOR BTI 25 May. 2015
 C. PAYS

PROCESS ACOTOM®



Datasheet of the EPINUS 4K

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

1. Application

The EPINUS 4K is an electronic coded sensor which can protect cranks and doors on dangerous machines, when wired with an AWAX module and keeps them also in close position with its magnetic latch. It uses the ACOTOM₂® electronic process. Housed in two stainless steel cases, one, the transmitter, the other, the receiver, it provides two NO static contacts and one NC for auxiliary static contact. It could be used to indicate the sensor state to the machine.

2. Fixing and wiring

It can be easily fixed with diam. 5mm screws. The receiver is fitted out with a diam. 5mm and length 3, 6 or 12m PVC multiwire. (Other lengths on request).

3. Operating

The EPINUS 4K is supplied with 24v AC or DC voltage.

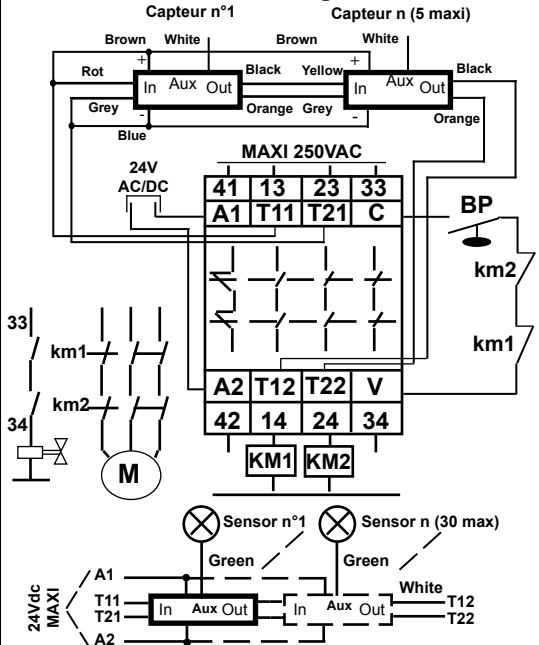
When the two targets on receiver and on transmitter are in line, the safety switch stays in these position by its magnetic latch. If codes are recognized, safety switch NO switches on, auxiliary NC contact switches off.

When the door is open, then safety switch NO switches off, and auxiliary contact provides the same voltage as the power supply. Detection through 2mm stainless steel or polycarbonate wall.

4. Technical characteristics

Supply Voltage	24 VAC/DC -15% +10%
Current	25 mA DC / 35 mA AC
Lines Protection	By AWAX on T11/T21
Auxiliary Line	PNP NF 250 mA
Ambiant Temperatur	-25 °C / +70 °C
Protection Class	IP69K
Switching Distance	3 mm
Hystérésis	2 mm
Size L x W x h	Emitter: 110 x 28 x 14 mm Receiver: 110 x 28 x 26 mm
Weight	Emitter: 140g Receiver (cable 3m): 380g

4. Wiring



5. Size

