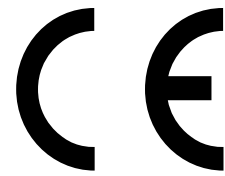




**BTI**  
 MANUFACTURER OF SAFETY MATERIAL  
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**REACH CONFORMITY**



**RoHS Compliant**

## 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.

### ELECTROMECHANICAL SAFETY MODULES

Range	Standards	Approvals	Category ISO 13849-1
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C4SX

ISO 13849-1  
 EN 50205

CE

B10d to 5A =  
 AC1:860000 / AC15:300000  
 DC13:300000  
 DC = 99 %  
 CCF = 90 %  
 TM= 20 years

**Test conditions :**

Switching Current=5 A / 250 Vac ou 5 A / 50Vdc  
 Power Supply=24 Vdc  
 Ambient Temperature=+25 °C

This product range is intended as safety line expander.

The safety modules are designed and manufactured following UL508 / CSA C22.2 regulation.

Safety modules must be used following diagram and directives described in our data sheet.

Noisy le Grand, 14th Oct. 2010

For BTI,  
 Mrs Michèle LEFOULON ,

PROCESS ACOTOM®



\*noncontractual photography



# C4SX/24V Datasheet

V0.5

Thank you for your trust in the BTI products.

In order to provide you a high reliability, this product was designed and manufactured with the greatest care. This product has been designed and manufactured according to the highest standards.

## 1. Application field

C4SX module was designed in order to increase the number of safety lines in a safety installation. It provides 4 NO safety lines with a switching power of 8A/250 VAC each, one auxiliary NC line with switching power of 4A/250 VAC and one test loop for cyclic test.

## 2. Standards:

C4SX: ISO 13849-1 (EN-954-1)

## 3. Mounting instructions

22.5 mm wide case with plug-in terminals mountable on a 35 mm symmetrical DIN rail according to DIN 50022.

The maximal tightening couple of the terminals: 0.5 Nm.

The maximal section of the wiring cable: 2.5 mm<sup>2</sup>.

## 4. Operating instructions

Wire the module for which you need to increase the number of safety lines. Start mode: 13/14, 23/24, 33/34, 43/44 lines are opened, while Y1, Y2 and 51/52 are closed. LED ON lights up and LED V lights off.

a) The system is resetted by a NO line plugged between K1 and K2. When the line closes, LED ON lights up, 13/14, 23/24, 33/34, 43/44 lines close and Y1/Y2, 51/52 open automatically.

b) At the opening of the line between K1 and K2, the LED V lights off, the 13/14, 23/24, 33/34, 43/44 open and Y1/Y2, 51/52 close.

## 5. Note

All the security installations must be frequently checked. Our engineers stay at your disposal for any question or particular request you may have (such as a study, a custom manufacturing ...). Do not hesitate to contact us.

## 6. Technical features

Supply voltage (Un)	24VAC 50Hz/60Hz or 24VDC
Tolerance	-15 % / +10 %
Power Consumption	< 6.5VA (AC) ; < 3.5W (DC)
Safety lines	8A / 250VAC resistive
Auxiliary line	4A / 250VAC resistive
Testing loop	24VAC/DC
Minimal switching power	50 mW
Response time	< 20ms
Temperature	-20 °C / +60 °C
Protection class	IP20
Dimensions W x H x L	22,5 x 100 x 111mm

## 7. Wiring example in cat. 4

Safetylines: 13-14, 23-24, 33-34, 43-44

Auxiliary line: 51-52

Testing loop: Y1-Y2

