MANUFACTURER OF SAFETY MATERIAL
Z.I. des Richardets
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France

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
C4SX	ISO 13849-1 EN 50205	CE	B10d to 5A = AC1:860000 / AC15:300000 DC13:300000 DC = 99 % CCF = 90 % TM= 20 years

*noncontractual photography

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®

SECURITE MACHINE

Launching year 2003

C4SX/24V Datasheet

V0.5

Thank you for you 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 mm².

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