



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 EMC Directive 2004/108/CE.

ELECTROMECHANICAL SAFETY MODULES

Range	Standards	Approvals	Category ISO 13849-1
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C4CK
C4SX

ISO 13849-1

CE

PL=e
 B10d to 5A = 100 000
 DC = 99 %
 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 to monitor an emergency stop, a safety sensor

The safety modules is 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®



*photo non contractuelle



BLOC C4 CK technical data sheet

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

1 - Application

The BLOC C4 CK is an extension of safety lines with a test line (X1/X2). This key-protected module is designed to shunt the device controlling an area. The module can be used in association with the AMX5 CK (key transfer).

2 - Fixing and wiring

45mm wide case with plugs in terminals mountable on a 35mm symmetrical DIN rail according to DIN50022.
The maximal tightening couple of the terminals is 0.5Nm.
The maximal section of the wiring cable is 2.5mm².

3 - Functioning

Connect the block to the safety module in which you want to increase the number of safety lines.

A VERSION

Start mode : the 13/14, 23/24, 33/34, 43/44 lines are open and the X1/X2, 51/52 lines are closed. The LED ON is lit up. The LED V is lit off.
When you turn the key on the non extractable position, the LED V lights up, the 13/14, 23/24, 33/34 and 43/44 close and the X1/X2 and 51/52 lines open.

B VERSION

Start mode : the 13/14, 23/24, 33/34 and 43/44 lines are closed and the X1/X2 and 51/52 lines are open. The LED ON and V are lit up.
When you turn the key on the non extractable position, the LED V lights off, the 13/14, 23/24, 33/34 and 43/44 lines open and the X1/X2 and 51/52 lines close.

Please check that the safety switch works properly after each operation realised on the switch according to the safety rules.

Advice

The installation has to be periodically checked. Our engineers team stay at your disposal to answer your questions and analyse all your specific demands (studies, specific needs...). Please do not hesitate to contact us.

4 - Technical characteristics

Power Supply	24VAC 50Hz/60Hz or 24VDC
Tolerance	-15 % / +10 %
Current	190mA (DC) et 300mA (AC)
Safety lines 13/14, 23/24, 33/34, 43/44	8A / 250VAC (AC1) 50mW to 2 KW
Auxiliary line 51/52	4A / 250VAC (AC1)
Loop test X1/X2	250mA / 24VAC (AC1)
B10d (EN60947-5-1,5A/250v)	AC1:860000, AC15:300000, DC13:300000
Response time	< 20ms
MTTFd / DC	90 years / 99,9 %
Protection	IP20
Temperature	-20 °C / +60 °C
Weight	227g
Size L x H x P	45 x 100 x 111mm

5 - Wiring example of category 4

Safety lines : 13-14, 23-24, 33-34, 43-44
Auxiliary line : 51-52

