



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.

ELECTROMECHANICAL SAFETY SWITCHES

Range	Safety Standards	Approvals
2SSR24BX	ISO13849-1/ EN 954-1	CE
2SSR24V	ISO13849-1/ EN 954-1	CE
3SSR24V	ISO13849-1/ EN 954-1	CE
4SSR24BX	ISO13849-1/ EN 954-1	CE
5SSR24BX 5SSR24BX-OX 5SSR24BX-US	ISO13849-1/ EN 954-1	CE

Safety category = 1 (EN 954-1)
 PL=c (ISO 13849-1)
 B10d=2 000 000
 dop=365 j
 hop=24 h
 F=1/h
 In=100mA
 TM= 20 years
 Checking period=1/year
 Type 4 acc. ISO 14119
 average level on request



unconAtractual picture

U.S. market : All products are manufactured with UL components and 94VO housing
 We hereby certify that the hereafter described safety components both in its basic design and construction conforms to the applicable European Directives.

Description :

Coded safety-sensor with process Acotom® conform to EN 609457-5-1.

Person authorized for the compilation of the technical documentation :
 Christophe PAYS from COMITRONIC-BTI

Place and date of issue : Noisy, 18 dec. 2014

Authorised signature
 Michel Conte
 Director



FURTIF 5SSR24BX and US technical data sheet

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

1. Application

The 5SSR24BX is a coded electronic autonomous sensor using our process ACOTOM® allowing to detects the opening of the mobil protectors on dangerous machines. Housing in two PA6 or stainless steel 316L cases (the transmitter and the receiver), it provides two NO contacts and an auxiliary NC contact. According to the detection distance it can be provided with code 133 or 233.

2. Regulations

The 5SSR24BX FURTIF follows the European Standards ISO13849-1, EN 954-1, EN60947-5-1. Protection index IP67 following EN 60529.

3. Fixing and wiring

With two square lugs, the two parts of 5SSR24BX FURTIF can be easily fixed with diam. 4mm screws (ZU4 washers provided).

Special anti tamper screws and tool in option. The receiver is fitted out with a multiwire diam. 5mm and length 3, 6 or 12m PVC. (other lengths on request).

4. unctioning

The 5SSR24BX FURTIF is supplied with 24 VAC or 24 VDC.

When the two targets on the receiver and transmitter are aligned and the codes are recognized, the 2 NO lines close, and the auxiliary NC line opens. It is useless to «stick» the two parts on each other ; the detection is efficient within 8 or 10mm distance.

"BX" version

If the code is not recognized or if the targets are not aligned, the red led lights up. Otherwise lights off.

"US" version

If the code is not recognized or if the targets are not aligned, the red led lights up. Otherwise lights green.

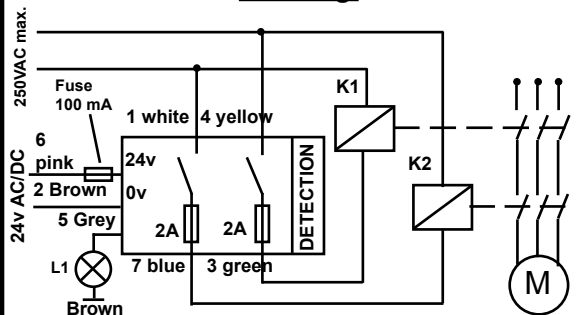
Advice

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

5. Technical characteristics

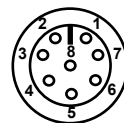
Power Supply	24 VAC/DC +/- 10%	
Current	45 mA	
Detection/Hysteresis	8 mm / 2 mm lateral +/- 10 mm	
Line protection	2 A fast fuse	
Safety contacts	PA6 : AC1-2A/250 V SS316L : AC1-2A/48 V	
Auxiliary contact	PNP 250 mA	
Temperature Protection IP	-25 °C ~ +60 °C IP 67-68 PA6 or IP69K inox	
Size LxIxh	Emetteur 92,5 x 17 x 25	Récepteur 92,5 x 25 x 25
Weight	Emetteur inox 105g PA6 70g	Recepteur inox 260g PA6 205g

6. Wiring



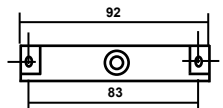
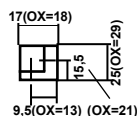
Straight connector MKT version

INM



7. Size (mm)

Emitter



Receiver

