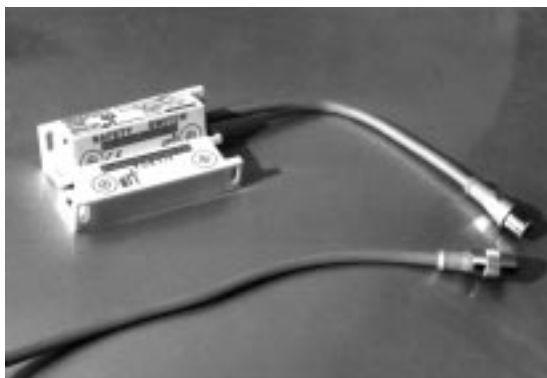


FURTIF AMX5-MKT technical data sheet



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



1. Application:

The AMX5MKT is a coded electronic autonomous sensor using our process ACOTOM₃ allowing to detects the opening of the mobil protectors on dangerous machines. This sensor is the first in the world that can detect its own safety contact failure, and then open safety line. Housing in two polycarbonate cases or stainless steel 316L , one, the transmitter, the other , the receiver, it provide two NO safety contacts and an auxiliary NC static contact. It could be used to indicate the sensor state to the machine. Like all safety product, this sensor must be periodically verify.

2. Regulations:

The safety switch FURTIF AMX5-MKT follows the European Standards EN 60947-5-1, ISO13849-1 (PL3e). Protection index IP67 following DIN EN 60529.

3. Fixing and wiring:

With two square lugs, the two parts of FURTIF AMX5-MKT can be easily fixed with diam. 4mm screws (ZU4 washers provided). Optional special anti tamper screws and tool. The receiver is fitted out with a multiwire of diam. 6mm and length 20cm with 8 waterproof locking plug pinouts .

4. Fonctionning:

The FURTIF AMX5-MKT is supplied with 24v AC or DC voltage.

When the two targets, on receiver and on transmitter are in line, and if code is recognized, safety switches NO switch on, auxiliary NC switch off and yellow led on the side of receiver light on.

If code is not recognized, target in misalignement or failure detection of safety contacts, then led light off and safety lines are open.

For avoid to damage square lugs, 1mm distance between the two parts is necessary; the detection is available with 8mm distance. Detection through 6mm stainless steel or polycarbonate wall.

Indicator:

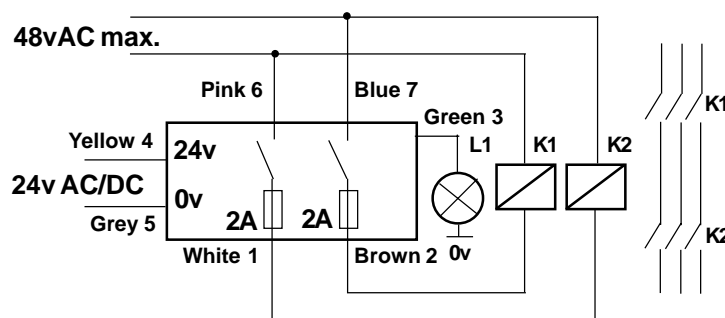
Led : Indicates the state of sensor
Yellow->detection of the code.

5. Technical characteristics

Supply voltage	24 VAC/DC -15% / +10% 50/60Hz	
Consumption	40mA (DC) / 50mA (AC)	
Temperature	SS316L -25 °C / +60 °C	Polycarbonate -25 °C / +60 °C
Protection (EN60529)	IP67 / IP69K (AMX5OX)	
Safety line	48 VAC/DC / 2A pilot duty & general use	
Auxiliary output	24 V (PNP NF) / 250mA general use	
MTTFd/DC	210 years / 99,5 %	
B10d (EN60947-5-1)	AC1:600000 / AC15:350000 (1A/30Vdc)	
Detection/Hysteresis	10 mm / 2 mm	
Size L x l x h (AMX5OX)	Transmitter: 92,5x17(18)x25(28) mm Receiver: 92,5 x 25(23) x 25mm	
Weight (AMX5MKTGX)	Transmitter: Poly. 90g /SSL 220g Receiver (3m): Poly. 210g / SSL 330g	

B10d is given for a current of 1A for information only. For the counting of performance according to ISO 13849-1, use only MTTFd and DC.

6. Wiring



*For to protect Safety line (internal 2A fuse) , you can use external 1.6A fast fuse.

7. Housing size

