

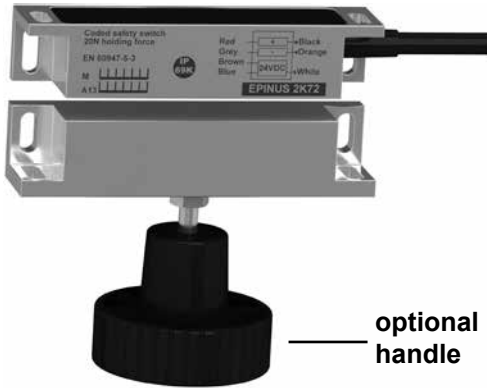
DECLARATION OF CONFORMITY

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.

ELECTRONIC SAFETY SWITCHES

Range	Safety Standards	Conformity
EPINUS SERIE	EN 60947-5-3	CE

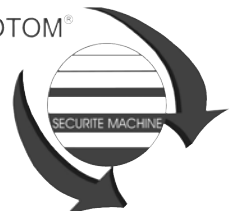
Datas acc. ISO 13849-1
 Performance Level (PL) = e
 with AWAX safety relay
 MTTFd = 360 years
 TM= 20 years
 Type 4 acc. ISO 14119
 average level on request



The new requirements do not impact the product. Low-voltage switchgear and controlgear including dimensional standardization is EN 60947-5-1:2004/A1:2009
 This range of safety switches is designed to replace mechanical safety switches and magnet locking used on doors and cranks of dangerous machines. It uses our process ACOTOM® or ACOTOM₃®. All the safety switches and safety modules are designed and manufactured following UL508/CSA C22.2 regulation.
 Safety switches and safety modules must be used following diagram and directives described in our data sheet.

FOR BTI June 2012
 C.PAYS

PROCESS ACOTOM®



Technical Datsheet of EPINUS 2K72

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

1. Application field

EPINUS 2K72 is an electronic coded safety switch using our ACOTOM₂® process, designed to detect the opening of a guard door. It's latching force of 2 kgs allows it to keep the guard doors magnetically closed. A handle designed to open / close, mounted on the transmeiter is available in option. Stainless steel 316L housing material is used to comply with hygiene standards in food industry. When transmeiter faces the receiver, both static safety contacts close whereas the auxiliary contact opens. When transmitter is removed, safety contacts open and auxiliry contact is powered. To reach safety level, EPINUS 2K72 must wired to our AWAX safety module.

2. Fixing & wiring

Thanks to the double mounting brackets EPINUS2K72 can be easily fixed thanks to M4 screws (non provided) and some stainless steel ZU4 washers (provided). Possibility to install some uncheatable stainless steel screws in option (ref OBH4). Receiver (ref:2K72) is equipped with a multicore cable UL2464 (5mm diameter and standard lenght of 3,6,12m), or Receiver (ref:2K72-MKT) is fitted with a PUR multicore 50cm cable with a M12 waterproof connector. The handle is an option and can be fixed with a M5 hex head screw (non provided).

3. Functioning

EPINUS 2K72 can be energised with 24VDC from the safety module AWAX in order to comply with ISO13849-1 standards. When the 2 targets of the transmeitter & receiver are facing each other the safety contacts Red/Black and Orange/Grey are closed. The auxiliary line (White) opens. Removing transmeitter & receiver will open both safety contacts and will close the auxiliary line, indicating a failure on the AWAX safety module. If a PLC is used, wire its input to the green wire. To benefit of the best magnetic latch, both parts of the safety switch must be in contact.

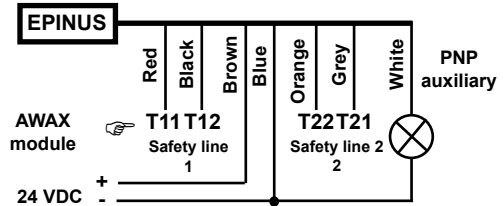
4. IP68

Submersible equipment under specified conditions (prolonged immersion) beyond 1 m. Normally, this means that the equipment is sealed. However, with certain types of equipment, it can mean that water can enter, but only if it does not produce harmful effects. Protection against flooding.

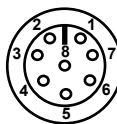
5. Technical features

Supply voltage	20 to 28 VDC
Current	40 mA to 24 VDC
Contacts protection	short circuit detected with Awax
Auxiliary output	PNP NC 250 mA
Temperature	-25 °C / +80 °C
Protection class	IP 68
Detection	3 mm
Hysteresis	2 mm
Dimensions	Transmitter: 90 x 19 x 21 mm Receiver: 90 x 19 x 21mm
Weight	Transmeitter: 170g Receiver(3m cable): 270g

6. Wiring instructions (2K72)

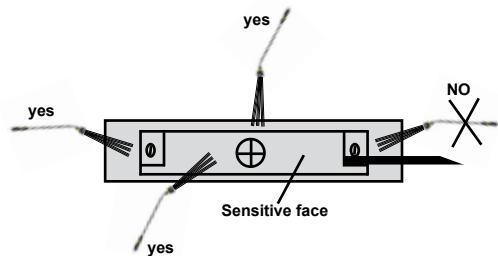


7. Wiring instructions (2K72-MKT)



- 1 White (T11)
- 2 Brown (+24VDC)
- 3 Green (PNP aux)
- 4 Yellow (T21)
- 5 Grey(T12)
- 6 Pink (T22)
- 7 Blue(0V)
- 8 nc

8. Wiring instalation to meet IP69K



9. Size

