

**Relay expansion module
«M-OUT4R»**

Passport

AAZCh.425532.010 PS



Serial number:

1 GENERAL INFORMATION AND TECHNICAL SPECIFICATIONS

1.1 General

Relay expansion module M-OUT4R (further – module) is intended to increase the number of relay outputs in fire alarm systems.

The module M-OUT4R functions with fire alarm control panel (FACP) Tiras PRIME series and is installed on the PCB of FACP.

The module is intended for continuous round-the-clock operation in rooms with controlled climatic conditions in the absence of direct influence of climatic factors of the environment. The operating temperature range is -5 to +40 °C. Relative humidity of air - no more than 93%.

1.2 Technical specifications

The specifications of the module are presented in table 1.1.

Table 1.1 – Specifications of modules

Parameter name	Value
Dimensions (WxHxD), mm, max.	60 × 60 × 30
Net weight, kg, max.	0,05
Enclosure protection level (IEC 60529)	-
Average lifetime, years	10
Average time between failures, hours, max.:	40000

The specifications of inputs and outputs of the module are presented in table 1.2.

Table 1 – Specifications of inputs and outputs

Parameter name	Value
Current consumption of module*, mA, max.:	
- standby mode	-
- activation mode (all relays)	70
Voltage/current of relay switching (each output), V/A, max.:	
- alternate current	120 / 1
- direct current	30 / 2
Cross section of wires, mm ² , max.	1,5

* - to calculate backup power supply

The appearance of the module is shown in Fig. 1.

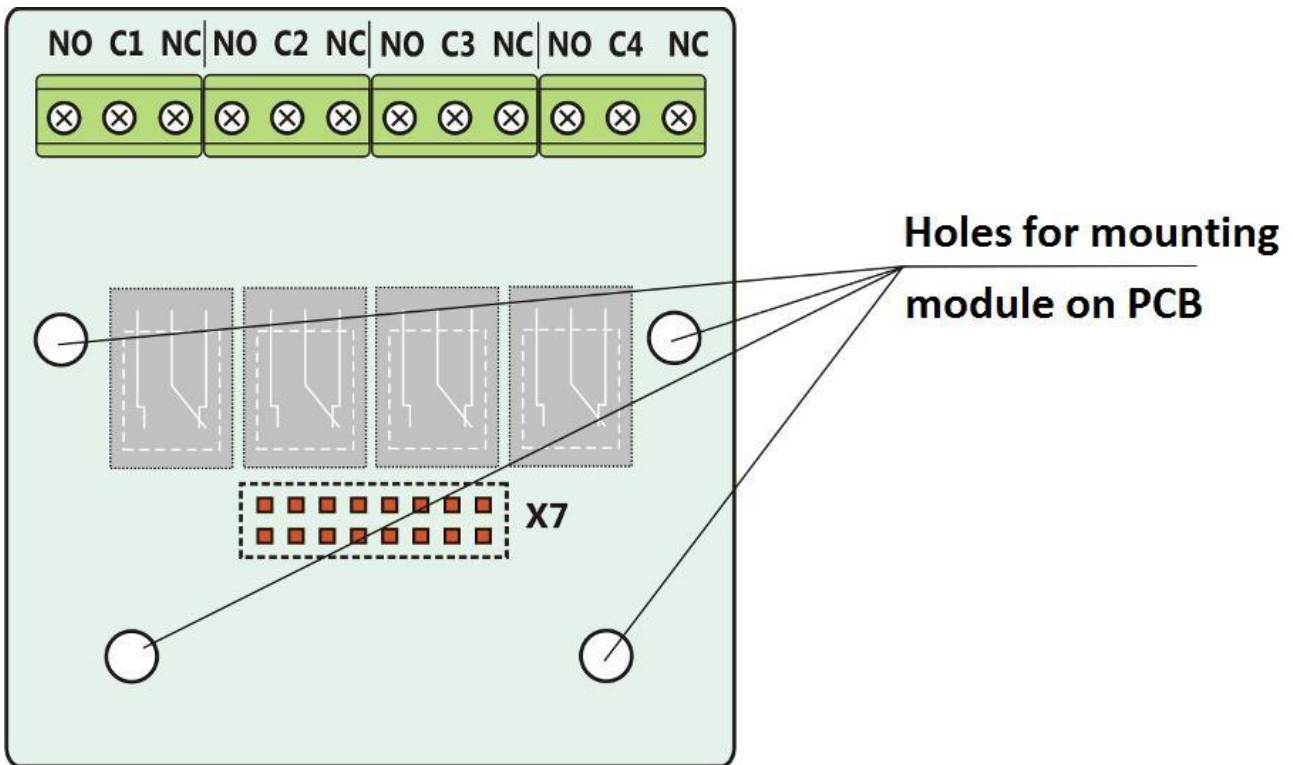


Figure 1 – Appearance of M-OUT4R module.

2 INSALLATION

The M-OUT4R module is installed on the FACP Tiras PRIME series PCB in accordance with the operating documentation for the corresponding FACP.

The assignment of module terminals is given in Table 2.

Table 2 – Module terminals designation

Terminal	Designation	Note
X7	Connector for connection to PCB	
C1-C4	Common relay contact	
NC	Normally closed relay contact	With respect to common contact in standby mode
NO	Normally open contact relay	

3 PACKAGING

After unpacking the module, please make a visual inspection and make sure there are no mechanical damages, also check the completeness, it should correspond to table 3.

Table 3 – Module packaging

Name	Code	Qty.
Module M-OUT4R	AAZCh.301411.120	1
Passport	AAZCh.425532.010 PS	1
Retainer		4

4 DECLARATIONS OF MANUFACTURER

The module is designed in accordance with the quality management system, which contains a set of design rules for all elements of the module.

All components of the module were selected according to their intended purpose and conditions of their exploitation correspond to environmental conditions outside the device housing in accordance with class 3k5 of IEC 60721-3-3.

5 INFORMATION ABOUT THE DECLARATIONS OF CONFORMITY TO THE TECHNICAL REGULATIONS AND CERTIFICATES

Module M-OUT4R conforms to the essential requirements of the following European Union Regulations and Directives:

- Construction Products Regulation (EU) No 305/2011;
- Low Voltage Directive 2014/35/EU;
- EMC Directive 2014/30/EU;
- Directive 2011/65/EU (RoHS).

Module M-OUT4R within FACP «Tiras PRIME 8L» is certified for compliance with requirements of the European Union Standard EN 54-2:1997+AC:1999+A1:2006. The EC Certificate of Constancy of Performance No 1438-CPR-0647 was issued by the CNBOP-PIB Notified Body.

The Quality Management System of the «Tiras-12» Ltd is certified according to DSTU ISO 9001: 2015. Certificate № UA 80050.008QMS-18 with effect from 27.04.2018 to 26.04.2021.

The full text of the declarations of conformity to the technical regulations and certificates is available on the website at the following address: www.tiras.ua.

6 CERTIFICATE OF ACCEPTANCE

Module M-OUT4R meets the technical specifications and requirements of acceptance and is approved as suitable for exploitation and is approved to be suitable for exploitation.

The serial number of the module is in the lower right corner of this passport. The date of receipt (stamp) is on the last page of the passport.

7 CERTIFICATE OF REACCEPTANCE

The module, which is stored in the warehouse of «Tiras-12» Ltd for more than 6 months, is subject to re-verification. The check mark is on the last page of the passport.

8 CONDITIONS OF TRANSPORTATION AND STORAGE

The storage temperature in warehouses must be within the range -50...+40°C, the relative humidity has to be not more than 98% at the temperature of 25°C. The air in the premise where module is stored, must not contain aggressive impurities causing corrosion.

Packed modules are transported at the temperature of - 50°C...+50°C, relative humidity of air has to be up to 98% at the temperature of +25°C for any distance by road, rail (in covered vehicles) or by water transport (in ship holds). Transportation must be carried out in accordance with the rules applicable for each mode of transport.

Placement and fastening of boxes with packaged products during transportation must ensure their stable position; exclude the

possibility of their impacts between each other and the walls of vehicles.

9 WARRANTY

The manufacturer ensures compliance of the module with the requirements of the technical specifications if the customer complies with the conditions of operation, storage and installation specified in this passport.

The warranty period is 36 months from the date of issue or from the date of the reacceptance.

10 LIMITATION OF LIABILITY

The manufacturer reserves the right to refuse warranty service of the module in controversial circumstances. The manufacturer also has the right to make a final decision on whether the module is to be serviced under the guarantee.

Actions and damages that result in loss of warranty service:

- 1) damage caused by natural phenomena (fire, flood, wind, earthquake, lightning, etc.);
- 2) damage caused by a violation of the installation rules or the provision of improper conditions for the operation of the module, including:
 - faulty grounding;
 - over-voltage of the power supply;
 - high humidity and vibration;
- 3) damage caused by foreign objects entering the module, liquids, insects and others;
- 4) mechanical damage to components of the module (chips, dents, cracks, broken contact terminals, etc.);
- 5) damage resulting from unauthorized repair;
- 6) damage caused by violation of the rules of transportation, storage and operation;
- 7) changing, removing, rubbing or damaging the serial number of the module (or labels with serial numbers on the module).

11 REPAIR

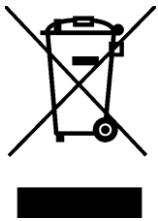
Module is repaired by the manufacturer or its authorized representative.

This module is repaired for free, in case the warranty period is not expired, it was operation in accordance with this passport.

The module is sent for repair, together with a letter, which should include: the description of the malfunction, the place of operation and the contact phone of the person in charge of repair.

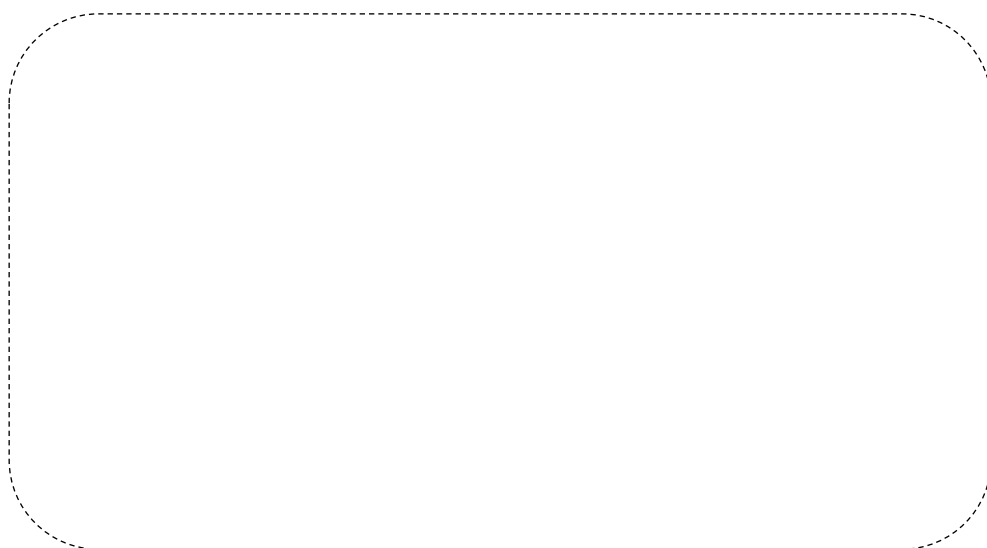
12 DISPOSAL

After the expiry of the service life of the module its utilization is carried out in accordance with the current legislation, separate from household waste.



In accordance with the EU Directive 2012/19/EU on waste electrical and electronic equipment, the disposal of module should be done separately from household waste. To dispose of the equipment it must be delivered to a point of sale or a local processing point.

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www.tiras.ua

Manufacturer:

«Tiras-12» LTD

21021 Ukraine, Vinnytsia, 2nd lane Khmelnytske shosse, 8

In any questions please contact:

Sales department:

market@tiras.ua

+38(0432) 56-12-04,
+38(0432) 56-12-06,
+38(067) 431-84-27,
+38(099) 294-71-27,
+38(067) 431-85-08

Technical department:

tb@tiras.ua

+38(0432) 56-12-41,
+38(067) 432-84-13,
+38(067) 430-90-42,
+38(050) 445-04-12,
+38(050) 317-70-05

**Warranty and post-warranty
service:**

otk@tiras.ua

+38(0432) 56-02-35,
+38(067) 432-79-43,
+38(067) 433-25-12,
+38(050) 317-70-04,
+38(050) 312-80-32