

Zone expansion module «M-Z(f)»

Passport

AAZCh.301411.132 PS



EN 54

Serial number:

1 GENERAL INFORMATION AND TECHNICAL SPECIFICATIONS

1.1 General

Zone expansion module «M-Z(f)» (further – module) is developed to increase the number of zones in Tiras PRIME 8L fire alarm control panels (further – FACP) to 20 (12 zones of module, 8 zones of FACP). It is installed on the PCB of FACP.

1.2 Technical specifications

Technical specifications of inputs and outputs are given in Table 1.

Table 1 – Technical specifications

Parameter name	Value
Number of zones	12
Power supply voltage, V	24 (from FACP)
Consumption current (without consumption of detectors)*, mA, not more than:	
- single zone is used («Quiescent» mode)	3
- all zones are used («Quiescent» mode)	36
Number of detectors in the zone, not more than	32
Zone voltage level in "Quiescent" mode, V	18 - 21
Cross section of connection of wires, mm ² not more than	1,5
Current in zone in «Quiescent» mode, mA	3,0 – 5,5
Maximum current in zone (short circuit), mA	43 ± 3
Source resistance in the zone (each wire and ground), kOhms, not less that	50
Resistance of wires in zone, Ohms, not more than	100
Resistance of the terminal resistor, kOhms	6,8 ± 1%
Dimensions (WxHxD), mm, not more than	90 × 55 × 20
Net weight, kg, not more than	0,15
Enclosure protection level (IEC 60529)	IP30 (housing of FACP)
Average lifetime, years	10
Average time between failures, hours, not less than	40000

* - for calculation of backup power supply

2 INSTALLATION, CONNECTION AND CONFIGURATION

The M-Z(f) module is installed on the board of Tiras PRIME 8L FACP, detectors are connected to zones of the module the same way as to zones of FACP itself, see details in installation guidance for FACP (AAZCH.425521.014 NB).

Module is configured by programming the FACP via the tLoader app (Windows OS, XP and later versions) or Android (version 4 and later ones). You can download this application at www.tiras.ua and in Google Play, respectively.

The appearance of the module is shown in Fig. 1. The assignment of the terminal plug is presented in Table 1.

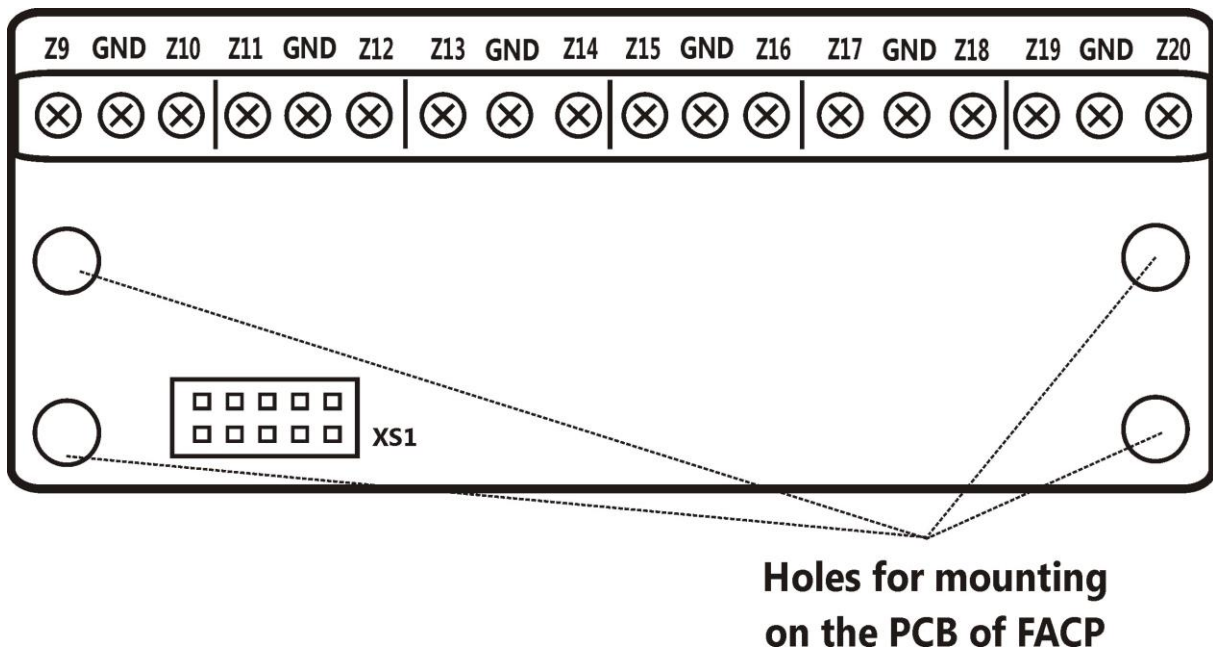


Figure 1 – Appearance of M-Z(f) module

Table 2 – Designation of terminals

<i>Terminal/ connector</i>	<i>Designation</i>
Z9-Z20	Detector connection zones (detection circuits)
GND	Schematic ground
XS1	Connector for connecting to Tiras PRIME 8L FACP.

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 – Packaging of module

Name	Code	Amount, pcs
Module M-Z(f)	AAZCH.301411.132	1
Passport	AAZCH.301411.132 PS	1
Fixer		4
Resistor 6.8 kOhm, 0.5 W		12

4 DECLARATION 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-Z(f) 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-Z(f) 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-Z(f) meets the technical specifications and requirements of acceptance 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

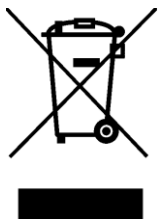
Module is repaired by the manufacturer or its authorized representative.

This module is repaired for free, in case the warranty period is not expired, it was operated 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.

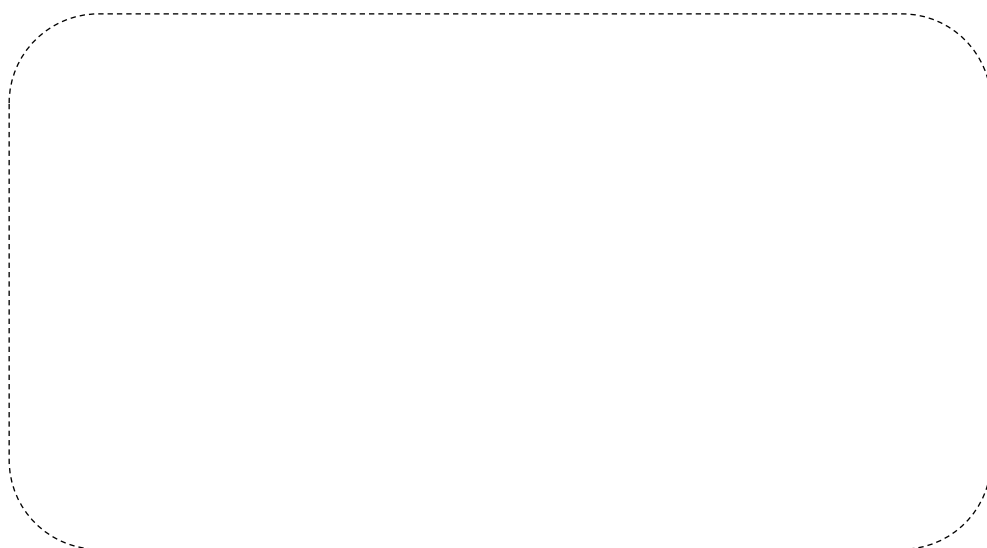
12 DISPOSAL

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 the 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.

Edited – 25.06.2019



www.tiras.ua

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