

EKS-6008 OUTPUT DEVICE

Purpose

The EKS-6008 control element is an addressable device designed to control automatic fire protection safety devices. EKS-6008 is designed to work on addressable lines of POLON 3000 or POLON 6000 fire alarm control panels. Device is adapted for indoor and outdoor operation. The EKS-6008 output elements enable to connect devices which current consumption does not exceed 2 A (starting current max. 6 A at max. 5 ms).

Principles of operation

Communication between POLON 3000 or POLON 6000 control panel and the EKS-6008 control element is performed through an addressable two-wire detection line. Unique, fully digital communication protocol enables transferring any information from the control panel to the element and from the element to the control panel.

The EKS-6080 enables the following states to be transmitted to the control panel:

- saving the address,
- reading the address,
- saving the operating mode,
- reading the operating mode,
- task for outputs according to mask,
- activation of outputs belonging to the group,
- stopping outputs belonging to the group,
- control output connection cable fault - if a break occurs,
- setting the state of the safe control output – if power outage
- reporting relay damage.

The relay in the control element is activated from the control panel and is signaled red LED flashing light enabling the location of the alarming element. Control panel alarm reset causes a return switching of the relay contacts.

The operation of the elements can be programmed and consists in selecting:

- type of control output operation (off, continuous, impulse, cyclic, finite cyclic),

- possibility of checking the continuity of the cable connected to the control output (on,off),
 - safe status of the control output – "fail safe" function (no change, not controlled, controlled),
 - actuation delay times, actuation, reset delay and reset
- EKS-6008 is equipped with an internal short circuit isolator, which cuts off the functional part of the monitoring line from the compact part, which allows its continued uninterrupted operation. The element address encoding is done automatically from the control panel - the address code is saved in its non-volatile form memory.

Technical specifications

Operating voltage	16.5 ÷ 24.6 V
Current consumption from the detection line	< 210 µA
Detection line short-circuit isolator	yes
Configuration of the monitoring element	from the control panel
Number of outputs	8
Supply voltage of the controlled device	6 ÷ 220 VDC, 230V AC
Load capacity of the NO/NC relay contacts	2 A/30 V DC (max 60 W) 0.27 A/230 V AC (max 62.5 VA)
Continuity check of the wire connected to the output	yes
Safe state of the control output:	no change, controlled, uncontrolled
Cable entry:	
- cable gland for the detection line	2 x M12
- cable gland outputs	8 x M16
Permissible conductor cross-section	up to 2.5 mm ²
Operating temperature range	from -40 °C to +85 °C
Ingress protection	IP 66
Climate category	40/085/04
Dimensions max	274 x 231 x 75 mm
Weight	< 1.0 kg

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Note

The product was issued by CNBOP-PIB, a notified body No. 1438, certificate of constancy of performance confirming possession of technical features/parameters required by the standards EN 54-17:2005 + AC:2007, EN 54-18:2005 +AC:2007. Features/technical parameters that exceed the requirements mentioned standards and others given herein product features/parameters not specified in the catalog card standards are confirmed by the Manufacturer.

The manufacturer has issued a declaration of performance for the product.

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