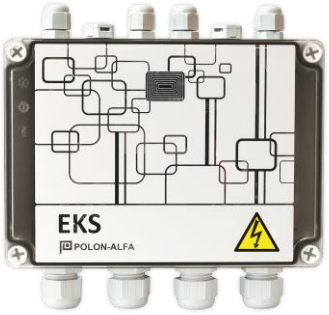

EKS-3222P
CONTROL AND MONITORING DEVICE

Purpose

The EKS-3222P control and monitoring element is an addressable device designed to control and monitor automatic fire protection safety devices. It allows monitoring the efficiency of controlled devices and correctness their action. It can also monitor the states of any devices matters unrelated to their control.
EKS-3222P is designed to work on addressable lines of POLON 3000 fire alarm control panels.
The EKS-3222P control and monitoring element is equipped with two high-power relay outputs, two parametric (IN) and two high voltage inputs (IN HV). Outputs of the EKS-3222P element enable the connection of devices, whose current consumption does not exceed 12 A at 230 VAC (current starting max. 100 A at max. 100 ms or max. 250 A at max. 50 ms at 230 VAC).

Principles of operation

Communication between POLON 3000 control panel and the EKS-3222P 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 relay in the EKS-3222P 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,
- function of the input (monitoring, alarm),
- method of operation of the parametric input (IN) and high voltage input (IN HV).

The EKS-3222P 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.

Technical specifications

Operating voltage	16.5 ÷ 24.6 V
Current consumption from the detection line	< 610 µA
Number of outputs	2
Number of parametric inputs IN	2
Number of high voltage inputs IN HV	2
Supply voltage of the controlled device	6 ÷ 220 V DC 230 V AC
Load capacity of the NO/NC relay contacts	max 12 A/230 V AC/2.76 kVA
Current consumption of the control output with the system turned on line continuity control	< 210 µA (6 – 220 V DC) < 440 µA (230 V AC)
Safe state of the control output:	no change, controlled, uncontrolled
Parametric input initiation (IN)	- potential-free NO or NC contact
Initiation of high voltage input (IN HV)	- live contact
Cable entry:	
- cable gland for the detection line, inputs IN	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 +70 °C
Ingress protection	IP 66
Climate category	40/085/04
Dimensions max	178 x 180 x 60 mm
Mass	< 0.55 kg

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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