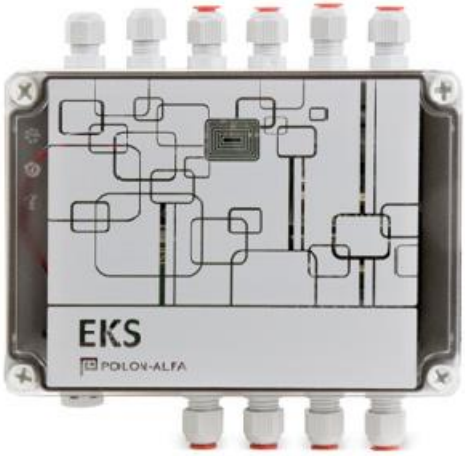

EKS-6080
INPUT DEVICE

Purpose

The EKS-6080 monitoring element is an addressable element, intended for:
- monitoring of operation of automatic devices security, fire protection,
- checking the status of any devices.

The EKS-6080 monitoring element is designed to work in addressable devices detection lines of fire alarm control panels POLON 3000 or POLON 6000.
The element is suitable for indoor and outdoor use objects.
EKS-6080 is equipped with low-voltage inputs. Inputs low voltage (IN) of the EKS-6080 element enable connection of independent, potential-free contacts normally closed or normally open.
The EKS-6080 monitoring element is equipped with 8 low-voltage inputs.

Principles of operation

Communication between the POLON 3000 or POLON 6000 control panel and the monitoring element EKS-6080 is done via addressable two-wire detection line. Unique, fully digital the communication protocol allows the transfer of any information from the control panel to the element and from the element to the control panel.
The control element allows the following to be transmitted to the headquarters states:
- saving the address,
- reading the address,
- saving the operating mode,
- reading the operating mode,
- accepting the active X state from the IN_n input, binary control or alarm input, NO or NC,
- accepting the active state X or the active state Y from the input IN_n, three-state control input, NO,
- fault of the cable connected to the IN_n input (if a short circuit or interruption occurs),
- short circuit isolation,
- location (report from the button),
- non-volatile memory damage: incorrect data saved in non-volatile memory.

The IN_n input of the monitoring element responds to a short circuit or opening of potential-free contacts. The switchboard signals this one change as active state from the monitoring or alarm input depending on the operating mode. Short circuit or wire break input is detected by the monitoring element and signaled by the control panel as cable fault.

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 inputs IN_n	8
IN_n input function:	monitoring or alarm
IN_n input initiation, potential-free	NO or NC contact
Checking the connecting cable	short circuit, break to the input
Input line capacitance	< 12 nF (approx. 100 m of YnTKSY 1 x 2 x 0.8 mm)
Cable entry:	
- cable gland for the detection line	2 x M12
- cable gland. low-voltage input IN_n	8 x M12
Permissible conductor cross-section	up to 2.5 mm^2
Operating temperature range	from -40 °C to +85 °C
Ingress protection	IP 66
Dimensions max	175 x 169 x 60 mm
Weight	< 0.5 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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