

MHY 926

Input/output element with power outputs

Input/output element MHY 926 connects to an addressable loop of FDFAS LITES. Contains 2 programmable inputs and 2 monitored potential relay outputs. Is intended for control and monitoring connected devices with alarm protection.



MHY 926 is an addressable multi-fold input/output element that connects to analogue addressable control panels of FDFAS LITES MHU 115, MHU 116 and MHU 117.

Inputs serve for automatic signalization of predefined special states of any external device which signals this state either by closing/opening an electronic contact or by voltage applied to opto-isolated input. Contacts can also be set as monitored. Inputs can be used for monitoring state of external power source dedicated to power supply the outputs of MHY 926.

Outputs serve for control connected external devices. They are potential, monitored for short-circuit and interruption of lines between the output and connected external device. Monitoring of outputs cannot be disabled. Current for outputs power supply is supplied from connected external power source.

Properties of each input and output are set in configuration program.

The element connects to the detection loop with two-wire lines. Element communicates with the control panel on 4 consecutive addresses. Default address is set via addressing preparation MHY 536 (535) in range 1÷125, while the next three addresses are generated automatically. First two addresses belong to inputs, the next two to outputs.

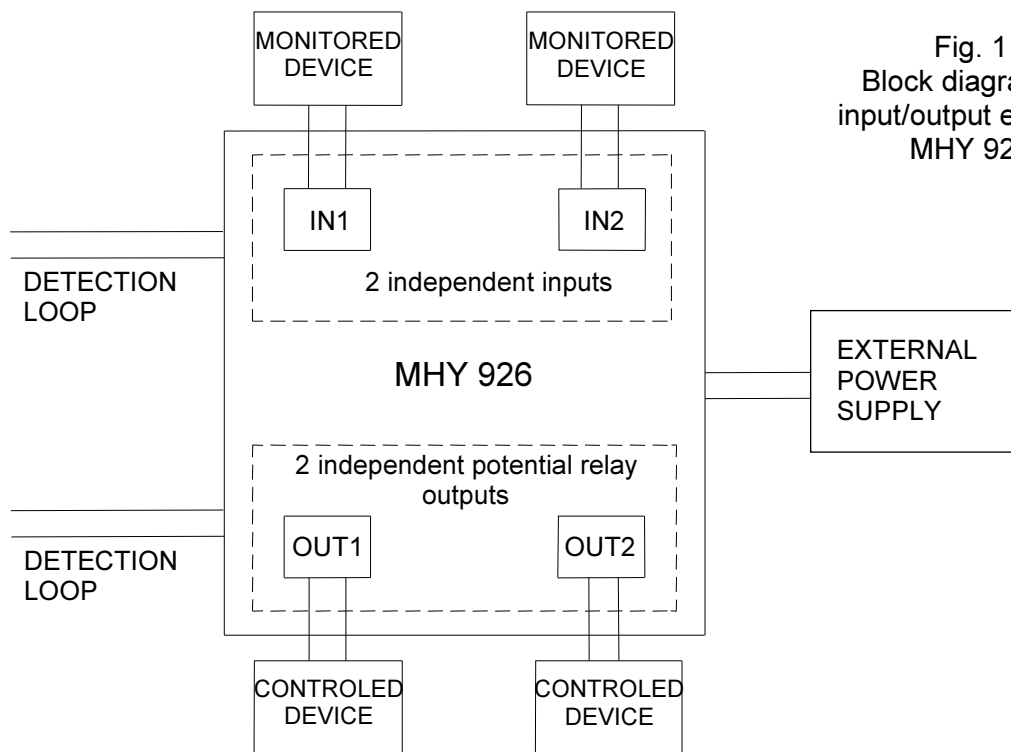


Fig. 1
Block diagram of
input/output element
MHY 926

Electronic circuits are on a PCB which is placed in a plastic box with removable cover. It is possible to place another element MHY 926 into one box.

Working conditions

The element is designed for environments protected against weather conditions with classification of conditions according to ČSN EN 60721-3-3.

K: climatic conditions for the environment	3K5
- working temperature range	(from -25 to +70) °C
- relative air humidity range	max. 95 % at +40 °C
- atmospheric pressure range	(from 86 to 106) kPa
- without condensation, icing and ice formation	
Z: special conditions	3Z1 heat radiation negligible
B: biological conditions	3B1 without presence of flora and fauna
C: chemical active substances	3C1
S: mechanical active substances	3S1
M: mechanical conditions	3M1
Lasting of significant temperature (45 – 70)°C	2 months/year
Lasting of significant humidity (85% – 95%/≤ 40°C)	100 hours/year

Technical parameters

Power supply from detection loop	(18 ÷ 21) V _{imp}
Normal state current (to add to loop current)	max. 200 µA
External power supply voltage	22 ÷ 30 V
Number of inputs	2
Input opto-isolated - voltage	
input voltage	9 V ÷ 30 V (logical 1)
	0 V ÷ 3 V (logical 0)
input resistance	10 kΩ
Input contact closing/opening	
closed contact lines resistance	max. 1 kΩ
open contact resistance	min. 10 kΩ
Input contact monitored	
lines resistance	max. 100 Ω
normal state resistor	10 kΩ
alarm resistor	4,7 kΩ
external fault resistor	20 kΩ
Potential monitored relay outputs	
Number of outputs	2
Output voltage	24 V
normal state resistor	10 kΩ/0,5 W
max. current at activation	1 A for each output (2A total)
Optical signalling	red and yellow LED
Protection according to ČSN EN 60529	IP 54
Radioscreening degree according to ČSN EN 55022	B class equipment
Connectable wires cross-section	(0,2 – 1,5) mm ²
Dimensions (w × h × d)	(254 × 180 × 63) mm
Weight	approx.. 550 g

The MHY 926 is designed for connection to a safe device according to ČSN EN 60950 and meets the requirements of the ČSN EN 54-18 standard for input / output devices.

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