

Wirebreak Relay

Description

LS 2



View 1

Features

- Protects and relieves sensitive control contacts
- Message in case of line break
- Message in case of line short circuit
- LED-operating signal
- Built according to VDE 0435-IEC 255

Wirebreak Relay

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LIST OF CONTENTS

1	Scope of Application	3
2	Method of Operation and Function	3
2.1	Code switches for configuration of the LS 2 (default)	3
2.2	Code switches for configuration of the LS 2 (optional)	3
2.3	External resistance wiring	3
3	Connecting Diagram	4
4	Dimensions	5
5	Technical Data	6

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1 Scope of Application

LS 2 checks digital remote alarms for line breaks and line short circuits. Further, it protects and relieves sensitive command contacts.

The LS 2 meets the requirements (for example) of the Association of Property Insurances for sprinkler auxiliary units.

2 Method of Operation and Function

The LS 2 should be connected according to the connection map (view 2). The external signal contact has to be wired according to the resistance combination (see 2.3). Other resistance combinations can also be installed. This has to be specified in the order.

The appliance can be used either for line break as well as line short circuit or singly for line break. This should also be indicated in the order.

The external signal circuit is **not** potential separate from the input voltage.

After feeding the input voltage, the potential free "ALARM" contact closes (static current) and the red LED lamp goes out, as the external signal circuit is faultless.

Current generated by the appliance runs through the external signal circuit (terminal 21 and 22). If the external contact shuts, the output (working current) relay tightens down. The potential-free "OUT" contact shuts and the green LED lights up.

In case of line break or of line short circuit of the external signal line, the "ALARM" contact falls down and the red LED lights up. The "OUT" contact also falls down.

2.1 Code switches for configuration of the LS 2 (default)

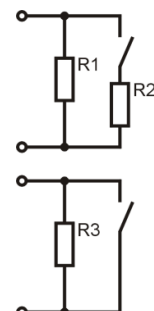
DIL	OFF	ON
1	delay off (<1 sec.)	-
2	see 2.3	-
3	contact not inverted	-
4	(only with DIL 2 ON)	-

2.2 Code switches for configuration of the LS 2 (optional)

DIL	OFF	ON
1	delay off (<1 sec.)	delay on (30 sec.)
2	see 2.3	see 2.3
3	contact not inverted	contact inverted
4	see 2.3	see 2.3

2.3 External resistance wiring

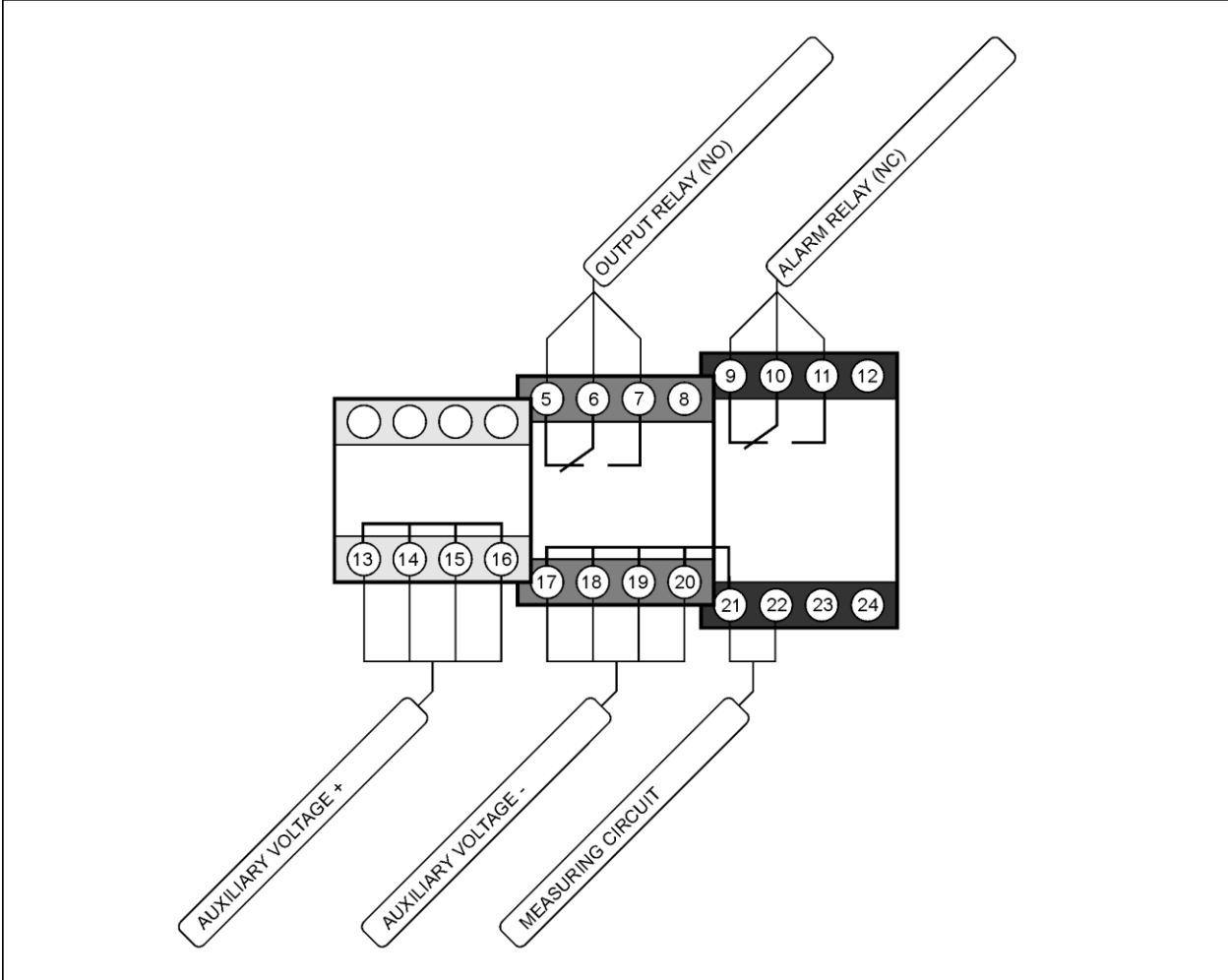
DIL 2 OFF: Line break and line short circuit	R1 = 4,7 kΩ R2 = 15 kΩ
	-
DIL 2 ON: only line break	DIL 4 OFF: R3 = 4,7 kΩ
	DIL 4 ON: R3 = 15 oder 22 kΩ



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3 Connecting Diagram



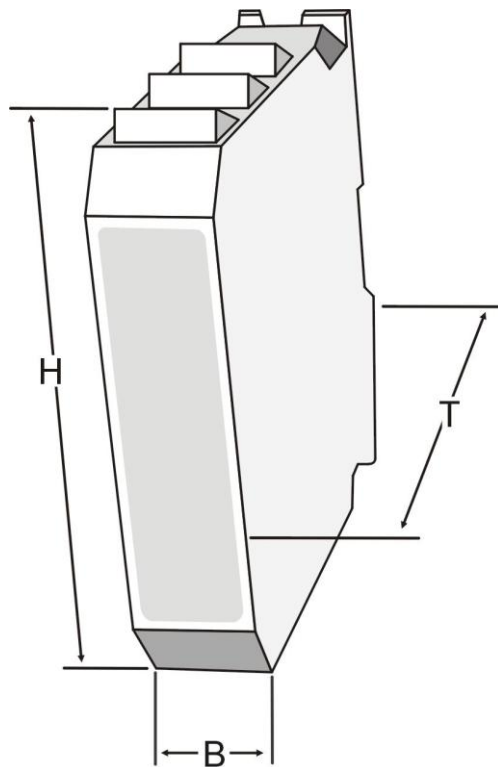
View 2

All contacts are shown in tension-free status.
resistances: 0.5 W, 1 %

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4 Dimensions



View 3

Width (B)	22,5 mm
Height (H)	99,0 mm
Depth (T)	114,5 mm

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5 Technical Data

Auxiliary voltage	18 - 34 VDC
Consumption	around 2.5 VA (24 VDC)
Output relays	Alarm contact: 1 change-over contact, static current Signal contact: 1 change-over contact, static current
Relay outputs	230 VAC/DC, 2 A
Voltage drop	<10 s down to 5 V, no deenergizing of output relay
Ambient temperature	0 ... +50 °C
Casing	DIN – plastic casing (<i>polyamide</i>) RAL 7031 blue-grey
Dimensions	W22,5 x H99 x D114,5 mm
Mounting	On DIN rail
Degree of protection	IP 40, terminal IP 20
Weight	141 g
Mounting position	any
Regulations	VDE 0160 / EN 50178, VDE 0435, Part No. 303, VDE 110 IEC 255-6

Subject to technical modifications!

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