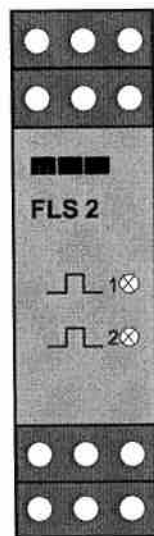


## Sensor monitoring relay

## FLS2

Version02 31.10.2007



### Sensor monitoring relay

- Message with line breakage
- Message with malfunction of sensors
- Separated alarm message

Fig. 1

### 1.0 APPLICATION AREA

The FLS2 is used to monitor Hall-sensors for rotation speed measurement. Monitoring covers line breakage of the supply lines and readiness for operation of the sensors.

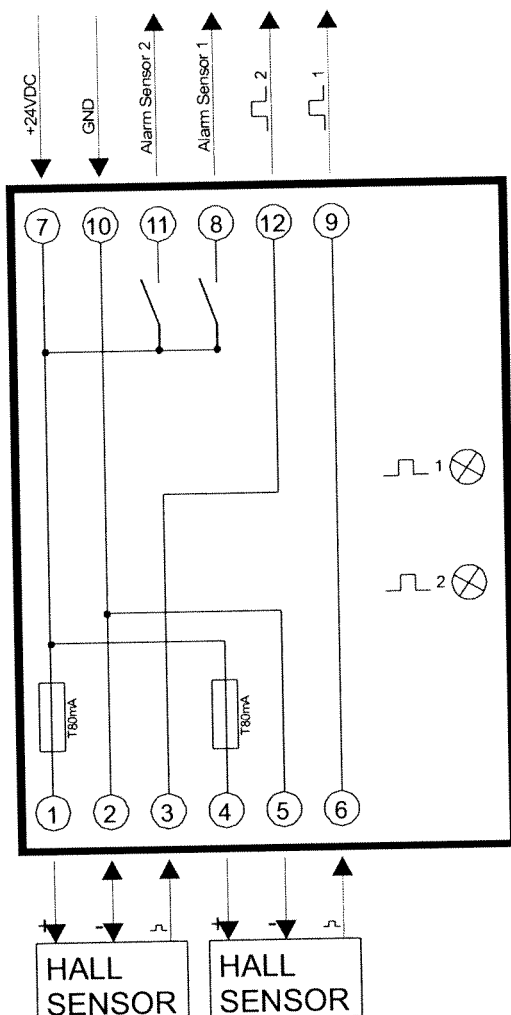
## 2.0 MODE OF OPERATION AND FUNCTION

The FLS2 has to be connected according to connector pin assignment (Fig. 2). If there is no malfunction of the sensors, then output relays are caused to operate and at the terminals is a +24VDC signal. The corresponding relay releases with a malfunction and the LED lights.

The current consumption of the sensors is monitored. If the set limits are exceeded or under-run, alarm is released. With breakdown of the sensors' auxiliary supply or tear-off of the supply line, alarm is also released. The rotation speed signal is looped through in the FLS2. Interpretation and monitoring takes place in an external control.

Auxiliary supply of the connected sensors corresponds to the auxiliary supply of the FLS2. Auxiliary supply for the sensors is individually fused with T80mA.

## 3.0 CONNECTOR PIN ASSIGNMENT



All contacts are shown in idle condition.

Fig. 2

#### 4.0 DIMENSION DIAGRAM

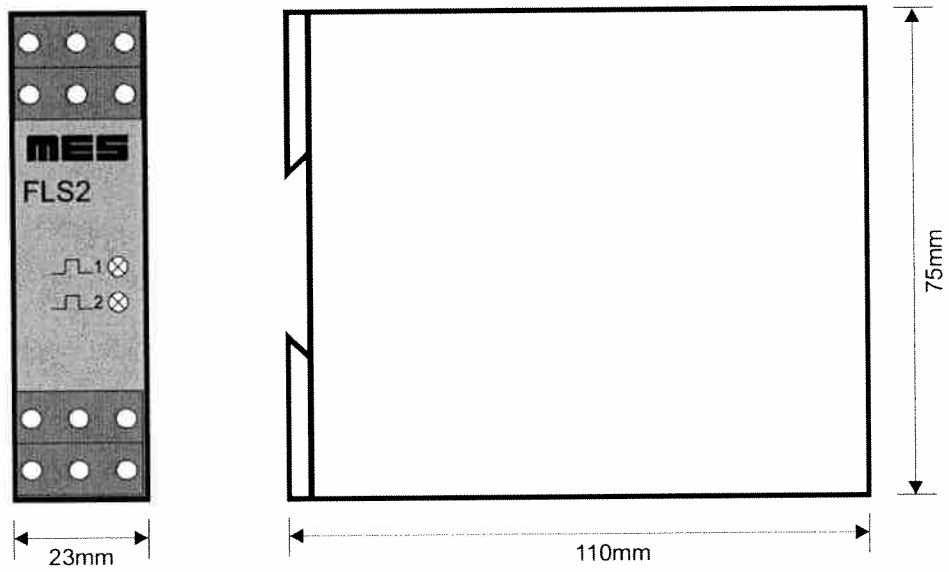


Fig. 3

## 5.0 TECHNICAL DATA

Auxiliary supply	18 - 28 VDC
Power input	approximately 2,5 VA (24 VDC)
Operating range Hall-sensor	5mA – 30mA
Relay outputs	Alarm contact: 2 normally open contacts, quiescent current
Contact power	230 VAC/DC, 2 A
Ambient temperature	0 ... +50 °C
Enclosure	Thermoplastic
Dimensions	W23 x H75 x D110 mm
Fastening	On standard bus bar according to DIN 50022
Protection class	IP 20
Weight	140 g
Mounting position	User-defined
Regulations	VDE 0160 / EN 50178, VDE 0435, part 303, VDE 110 IEC 255-6

*Subject to technical modifications!*



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