



Set-Point Alarm Relays



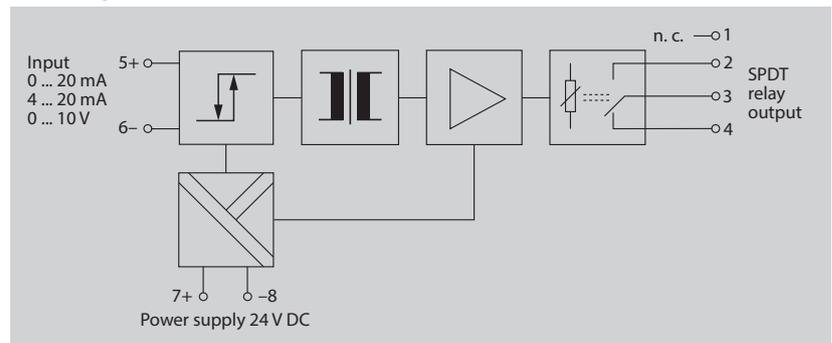
BasicLine BL 550

Highly compact set-point alarm relay with changeover output contacts

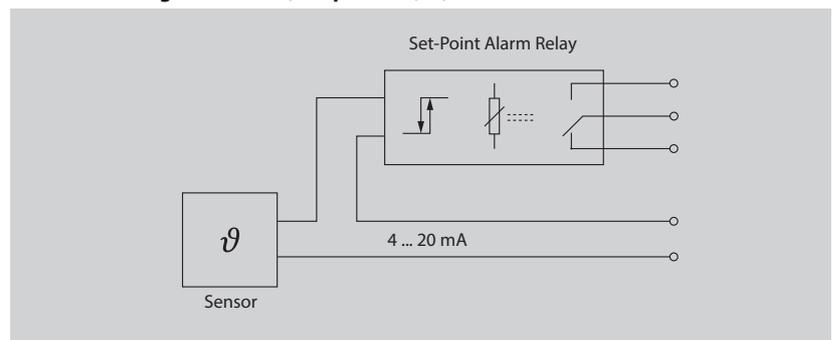
Facts

- Simple monitoring and control of standard signals
- NC/NO changeover
- Limit values / switching thresholds freely adjustable using potentiometer on the front
- Input signal, switching hysteresis and delay adjustable using DIP switches
- 3-way isolation
- Minimum space consumption in the enclosure: 6-mm housing
- CE compliant and UL approved
- 3-year warranty
- Perfect price-performance ratio

Block Diagram



Limit Monitoring of a Sensor (Temperature, ...)



Input	Output	Power supply
0 ... 20 mA 4 ... 20 mA 0 ... 10 V	SPDT changeover relay, single pole	24 V DC

Product Line

Device	Order No.
BasicLine BL 550	BL 550

Specifications

Input

Voltage	0 ... 20 mA, 4 ... 20 mA, 0 ... 10 V	
Resistance	Current input	50 ohms
	Voltage input	100 kohms
Overload capacity	Current input	100 mA
	Voltage input	30 V

Min/max output

Output type	SPDT relay output	
Contact type	1 changeover contact	
Contact material	AgSnO ₂ , hard gold plated	
Max. switching voltage	240 V AC	
Limiting continuous current	2 A	
Switching threshold	Adjustable using potentiometer on the device front	
Response delay	0 s ... 10 s (0 s; 1 s; 2 s; 3 s; 4 s; 6 s; 8 s; 10 s)	
Internal hysteresis	0.1 %; 1 %; 2.5 %; 5 %	

General data

Temperature coefficient ¹⁾	< 0.02 %/K	
Setpoint repeatability	< 0.2 % full scale	
Step response	< 35 ms	

Power supply

Power supply	24 V DC (± 15 %), approx. 330 Wm	
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Isolation

Galvanic isolation	3-port isolation between input, output and power supply	
Test voltage	1,5 kV AC, 50 Hz	
Working voltage	50 V AC/DC (basic insulation) with overvoltage category II / pollution degree 2 according to EN 61010-1	

Standards and approvals

Conformity	CE compliant	
EMC ²⁾	Directive 2004/108/EC	
Radiated emission	EN 61000-6-4	
Immunity to interference ²⁾	EN 61000-6-2	
Approval	UL Recognized Component, File No. E306206, Standards: UL 508 and CAN/CSA C22.2 No. 14-95	

Further data

Ambient temperature	Operation: 0 ... +55 °C Transport, storage: -20 ... +85 °C	
Housing	Modular housing, screw terminals, IP 20 protection	
Mounting	35-mm mounting rail, EN 60715	
Dimensions	6.1 mm x 101 mm x 93 mm	
Wire cross-section	Max. 2.5 mm ² , 24-14 AWG	
Weight	Approx. 50 g	

1) Average TC in specified operating temperature range, reference temperature 23 °C

2) Slight deviations are possible while there is interference (typically 5%)