## Operating instruction

## baelz 23-PT, baelz 23-NTC 3.1

Outdoor temperature sensor baelz 23-PT, baelz 23-NTC 3.1



# Outdoor temperature sensor baelz 23-PT and baelz 23-NTC 3.1

#### Range of application and mode of action

The outdoor temperature sensors are used for measurement of air temperature in outdoor areas, in cold stores and greenhouses.

The sensors are also used as leading sensors for flow temperature regulations controlled by athmospheric conditions.

Inside the sensor enclosure, there is a measuring element of resistance. In case of temperature change, the item changes his electric resistance.

The sensors are usable with controllers, which are equipped with suitable sensor inputs, for example baelz 64xx for PT-Sensor,

baelz 6164 and 62xx for PT- and NTC Sensor.



The sensor baelz 23 is installed into a plastic enclosure with removable cover.

The clamps are accessible after removal of cover.

The cable entry can come out of the wall or finery.

During assembly, there is to be paid attention to that the sensors aren't exposed to direct sun contact.

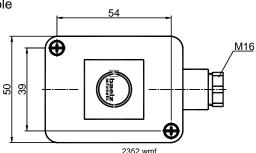
Mounting always on the coldest side of the building (normally the northside).

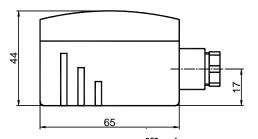
Sensors should not be exposed to the morning sun.

Ground clearence should be at least 1,5m. The following sites have to be avoid:

In the area of heat sources, above windows, doors, bleeding-offs or walls of fireplace.







Connection between temperature and resistance:

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Temp. In°C	-40	-20	-10	0,0	10	20	30	40	50	60	70	80	90	100	140
PT100 In $\Omega$	84,27	92,16	96,09	100,0	103,9	107,79	111,67	115,54	119,4	123,24	127,07	130,89	134,7	138,5	153,58
NTC 3.1 In Ω	23781	8524	5349	3450	2281	1544	1069	755		398					

## **Technical specifications**

PT100 DIN 43760 - Grade B

Temperature limits -50...+90°C

Measuring element PT100 DIN Grade B

Cable entry M16

Enclosure Polyamide, Enclosure Type IP65

Colour white

Temperature limits Measuring element

Cable entry

Connection through 2pole clamp

NTC 3.1 -40...+60°C NTC 3.1 M16

Enclosure Polyamide, Enclosure Type IP65

Colour white

Connection through 2pole clamp

Rights reserved to make technical changes!



102'+7