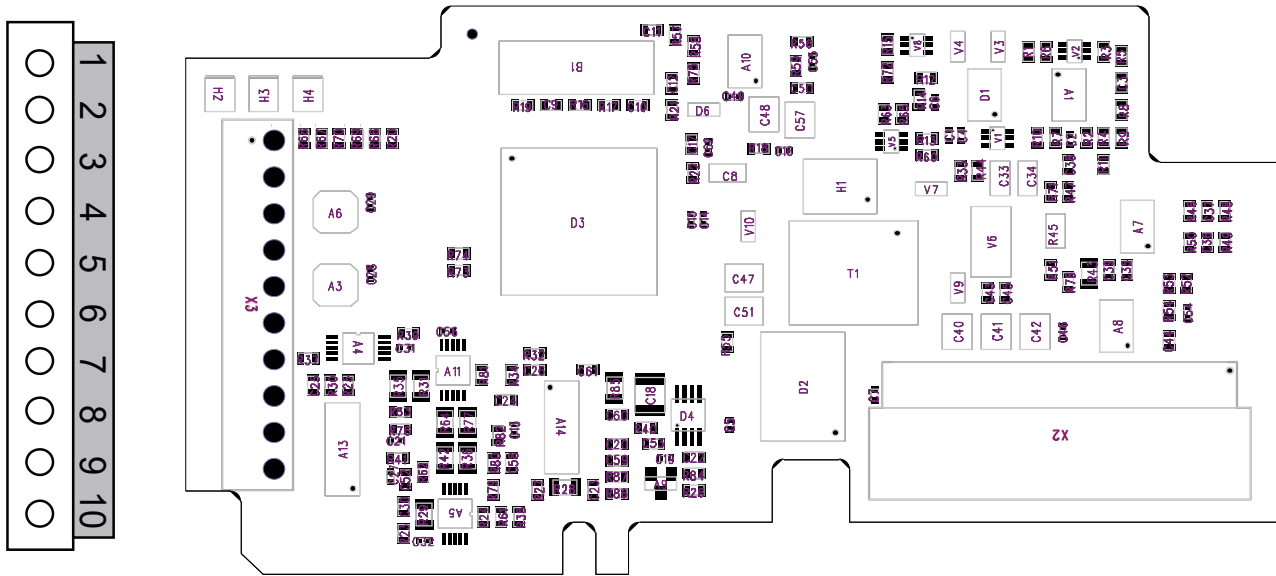


# Board OPTBH

3 × temp sensors Pt-1000, Ni-1000, Pt-100



## FEATURES

- **Description:** Temperature measurement board with three individual channels.
- **Supported sensors:** PT100, PT1000, NI1000, KTY84-130, KTY84-150, KTY84-131
- **Type ID:** 16968
- **Terminals:** One terminal block; Screw terminals (M2.6); No coding
- **Jumpers:** None

## I/O Terminals on OPTBH

Table 1. I/O Terminals on OPTBH

Terminal		Parameter reference Keypad	Parameter reference Keypad
1	R1.1	AnIn:X.1	Temperature sensor input 1, -50...200 °C Accuracy ±1°C
2	R1.2		
3	R1.3		
4	R2.1	AnIn:X.2	Temperature sensor input 2, -50...200 °C Accuracy ±1°C
5	R2.2		
6	R2.3		
7	R3.1	AnIn:X.3	Temperature sensor input 3, -50...200 °C Accuracy ±1°C
8	R3.2		
9	R3.3		
10	NC		

# OPTBH accuracy

The following tables represent the results of accuracy measurements in laboratory environment.

In the tests, Draga JAMAK cable was used.

Testing covered different sensor setups and sensor type combinations.

**Table 2. PT100 accuracy**

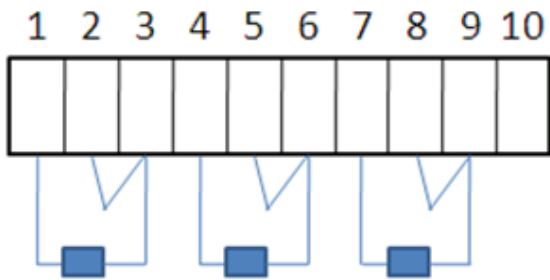
Cable length [m]	3-wire	2-wire	Accuracy (°C)
≤ 300	x		-1 < x < 3
50		x	-1 < x < 14

**Table 3. PT1000, KTY84 and Ni1000 (Ni1000 DIN) accuracy**

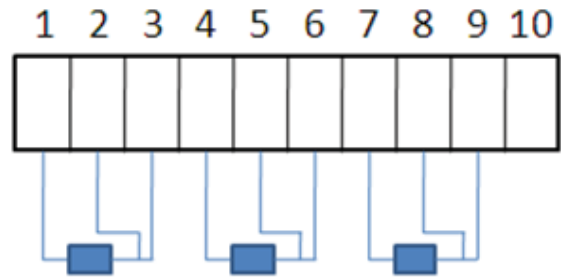
Cable length [m]	3-wire	2-wire	Accuracy (°C)
≤ 300	x		-1 < x < 1
150		x	-1 < x < 5
50		x	-1 < x < 3

# OPTBH option board wiring scheme

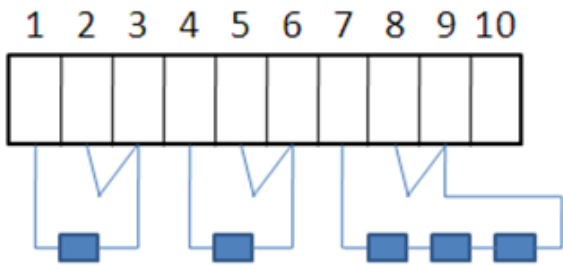
Use shielded cables and connect the cable shield to grounding clamp in the drive.  
Allowed sensor configurations are shown in the figures below:



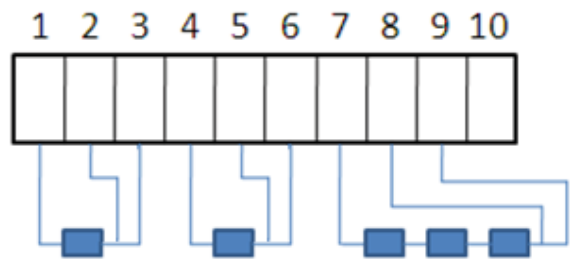
Two-wire configuration



Three-wire configuration



Two-wire configuration



Three-wire configuration

# OPTBH board parameters



## NOTE:

Use shielded cables and connect the cable shield to grounding clamp in the drive.  
Allowed sensor configurations are shown in the figures below:

**Table 4. PT1000, KTY84 and Ni1000 (Ni1000 DIN) accuracy**

Code	Parameter	Min	Max	Unit	Default	ID	Description
7.x.1.1	Sensor 1 type	0	6		0		0 = No Sensor 1 = PT100 2 = PT1000 3 = Ni1000 4 = KTY84 5 = 2 x PT100 6 = 3 x PT100
7.x.1.2	Sensor 2 type	0	6		0		See above
7.x.1.3	Sensor 3 type	0	6		0		See above

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Manufactured for and on behalf of the Connected Building Division of Honeywell Products and Solutions SARL, Z.A. La Pièce, 16, 1180 Rolle, Switzerland by its Authorized Representative:



Honeywell GmbH  
Böblinger Strasse 17  
71101 Schönaich  
Germany  
Phone (49) 7031 63701  
Fax (49) 7031 637493

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