

3.2.8 OPTBH



- Description:** Temperature measurement board with three individual channels.
- Allowed slots:** B, C, D, E
- Supported sensors:** PT100, PT1000, NI1000, KTY84-130, KTY84-150, KTY84-131
- Type ID:** 16968
- Terminals:** One terminal block; Screw terminals (M3); No coding
- Jumpers:** None

I/O Terminals on OPTBH

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

OPTBH accuracy

The following tables represent the results of accuracy measurements in laboratory environment. In the tests we used Draga JAMAK cable. The testing covered different sensor setups and sensor type combinations.

Table 36. PT100 accuracy for OPTBH

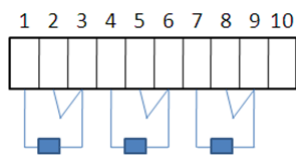
Cable length (m)	3-wire	2-wire	Accuracy (°C)
≤300	x		-1 < x < 3
50		x	-1 < x < 14

Table 37. PT100, KTU84 and Ni1000 (Ni1000 DIN) accuracy for OPTBH

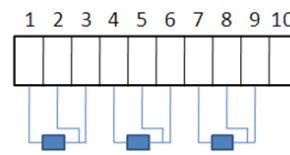
Cable length (m)	3-wire	2-wire	Accuracy (°C)
≤300	x		-1 < x < 1
150		x	-1 < x < 5
50		x	-1 < x < 3

Connecting Temperature sensors to OPTBH option board:

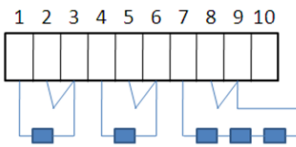
Use shielded cables and connect the cable shield to grounding clamp in the drive. Allowed sensor configurations are shown on figures below:



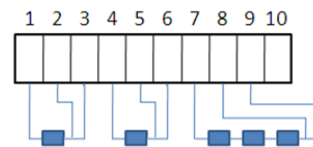
Two-wire configuration



Three-wire configuration



Two-wire configuration



Three-wire configuration

OPTBH board parameters

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