

HM5030 AINiCo Horseshoe magnetic surface thermocouple

Construction

Magnet	Horseshoe AINiCo magnet
Magnet dimensions	39x26x25mm (LxWxH)
Magnetic strength	90 Newton
Contact	Sensitive surface contact Spring loaded
Transport protection	Metal frontplate, must be removed to measure

Cable

Ingress protection	IP54
Type	PTFE insulated cable std. Silicon optional
Cable length	4000mm standard

Thermocouple

Calibration	K, T or J
Accuracy	According IEC 584-1
Duplex type	KK, TT or JJ
Hot junction	Free from ground
Insulation test	Minimum 100 Mohm

Temperature limit

Maximum temperature	Measuring tip maximum 240°C
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Options

Cable	Other cable type
ATEX	Exi, Exe or Exd

Thermokoppel kleurcodes

Thermocouple Extension Type	ANSI	IEC
JX + Iron - Constantan ®		
KX + Chromel ® - Alumel ®		
TX + Copper - Constantan ®		
EX + Chromel ® - Constantan ®		
NX + Nicrosil ® - Nisil ®		
SX + Copper RX - Alloy 11		
BX + Copper-S - Copper-E		

Toleranties volgens IEC 584-2

Type	Class	Temperature range	Fixed value °C	Tolerance to temp. t (°C)
T	1	- 40°C to + 350°C	± 0,5	± 0,004 · t
	2	- 40°C to + 350°C	± 1	± 0,0075 · t
	3	- 200°C to + 40°C	± 1	± 0,015 · t
E	1	- 40°C to + 800°C	± 1,5	± 0,004 · t
	2	- 40°C to + 900°C	± 2,5	± 0,0075 · t
	3	- 200°C to + 40°C	± 2,5	± 0,015 · t
J	1	- 40°C to + 750°C	± 1,5	± 0,004 · t
	2	- 40°C to + 750°C	± 2,5	± 0,0075 · t
	3	-	-	-
K and N	1	- 40°C to + 1000°C	± 1,5	± 0,004 · t
	2	- 40°C to + 1200°C	± 2,5	± 0,0075 · t
	3	- 200°C to + 40°C	± 2,5	± 0,015 · t
R and S	1	0°C to + 1600°C	± 1,0	± [1+0,003 ·(t-1100)]°C
	2	0°C to + 1600°C	± 1,5	± 0,0025 ·t
	3	-	-	-
B	1	-	-	-
	2	+ 600°C to + 1700°C	± 1,5	± 0,0025 ·t
	3	+ 600°C to + 1700°C	± 4	± 0,005 ·t



Ordering code



H1-1 Rev.0 7/07



thermo-electra
temperature sensor solutions

Thermo Electra B.V.
Weteringweg 10
2641KM Pijnacker
The Netherlands

Phone +31 (0)15 - 3621200
Fax +31 (0)15 - 3694082
Email sales@thermo-electra.com
http://www.thermo-electra.com

