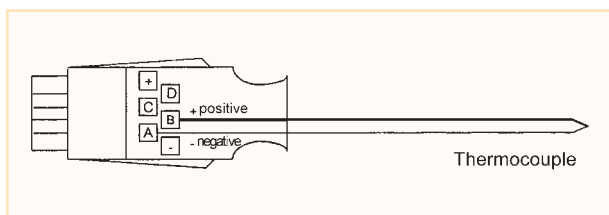


INPUT CONNECTORS

ALMEMO® Connectors for Thermocouple Types K, N, L, J, T



Variants (with thermal material)

Model	Meas. Range	Resolution	
NiCr-Ni (K)	-200.0 to +1370.0°C	0.1K	Order No. ZA9020FS
NiCrSi-NiSi (N)	-200.0 to +1300.0°C	0.1K	Order No. ZA9020FSN
Fe-CuNi (L)	-200.0 to +900 °C,	0.1 K	Order no. ZA9021FSL
Fe-CuNi (J)	-200.0 to +1000 °C,	0.1 K	Order no. ZA9021FSJ
Cu-CuNi (T)	-200.0 to +400 °C,	0.1 K	Order no. ZA9021FST

ALMEMO® measuring module for thermocouple type K, J, T electrical isolated to 1000V



- ▶ Electrically isolated measurement of thermocouples (in particular bare thermo-wire types) on live parts
- ▶ Pure digital data transmission to the measuring instrument
- ▶ Simple, protected connection of the thermocouple via screw terminals inside the housing

Technical data :

Sensor :	Thermocouple type K
Measuring range :	
ZA9920AB: NiCr-Ni(K):	-200 .. 1370°C
ZA9921ABJ: Fe-CuNi(J):	-200 .. 1000°C
ZA9921ABT: Cu-CuNi(T):	-200 .. 400°C
Resolution :	0.1 K
Accuracy :	Linearization accuracy, cold junction accuracy, system accuracy see page 01.05 Technical data
Measuring rate :	1.88 Hz
Electrical isolation :	1 kV permanent, 4 kV for 1 second
Housing :	polystyrene, dimensions : (LxWxH) 100 x 54 x 31 mm
Sensor connection :	screw terminal inside the housing
Connecting cable :	1.5 meters with ALMEMO® connector Programmed range DIGI,
Operating voltage :	6 to 14 V via ALMEMO® device
Current consumption :	<40 mA (connector and module)

Types :

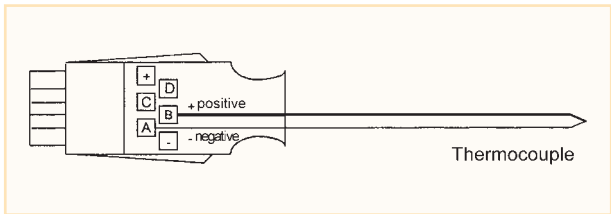
Measuring module for NiCr-Ni (K) including 1.5-meter ALMEMO® connecting cable
 Measuring module for Fe-CuNi (J) including 1.5-meter ALMEMO® connecting cable
 Measuring module for Cu-CuNi (T) including 1.5-meter ALMEMO® connecting cable
 Please note that the thermocouple must be ordered separately !
 (e.g. thermo-wires, see Chapter 08)

Order no. ZA9920AB
Order no. ZA9921ABJ
Order no. ZA9921ABT

01/2005 We reserve the right to make technical changes.

INPUT CONNECTORS

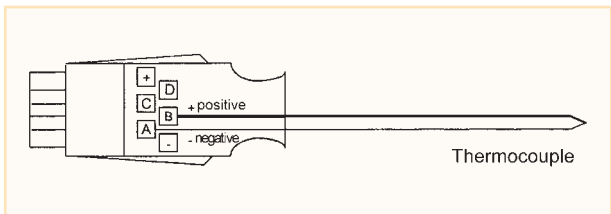
ALMEMO® Connectors for Thermocouple Types U, S, R, B, AuFe-Cr



Types:			
Model	Meas. Range	Resolution	
Cu-CuNi (U)	-200.0 to +600.0°C	0.1K	Order No. ZA9000FSU
PtRh10-Pt (S)	0.0 to +1760.0°C	0.1K	Order No. ZA9000FSS
PtRh13-Pt (R)	0.0 to +1760.0°C	0.1K	Order No. ZA9000FSR
PtRh30-PtRh6 (B)	+400.0 to +1800.0°C	0.1K	Order No. ZA9000FSB
AuFe-Cr (A)	-270.0 to +60.0°C	0.1K	Order No. ZA9000FSA

ALMEMO® connector with integrated cold junction sensor for all thermocouples

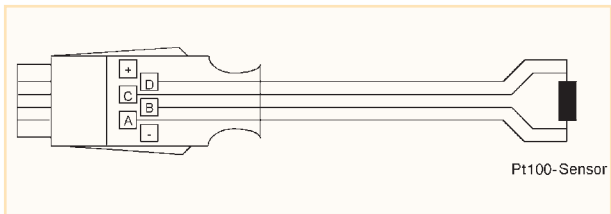
new!



For especially exacting applications demanding the highest possible level of precision or performed under unfavorable conditions (e.g. subject to thermal irradiation)

Types:		
1st channel, NTC, integrated cold junction sensor, resolution 0.01 K		
2nd channel, thermocouple, resolution 0.1 K; please specify type !		Order no. ZA9400FS

ALMEMO® Connectors for Pt100 Sensors/Pt1000 Sensors



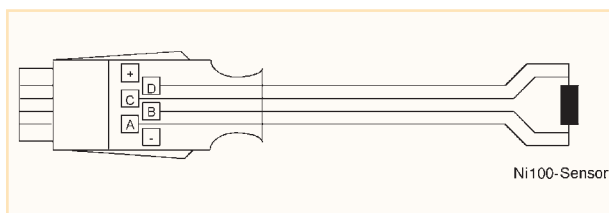
Types:			
Model	Meas. Range	Resolution	
Pt100 4-conductors	-200.0 to +850.0°C	0.1K	Order No. ZA9030FS1
Pt100 4-conductors	-200.0 to +400.0°C*	0.01K	Order No. ZA9030FS2
Pt1000 4-conductors	-200.0 to +850.0°C*	0.1K	Order No. ZA9030FS4
Pt1000 4-conductors	-200.0 to +400.0°C*	0.01K	Order No. ZA9030FS5
Pt100 4-conductors	0 to +65.000°C	0.001K (only for ALMEMO® 2690-8 and 2890-9)	Order No. ZA9030FS7

*Data may vary depending on device; (see data sheet per device).

INPUT CONNECTORS

03

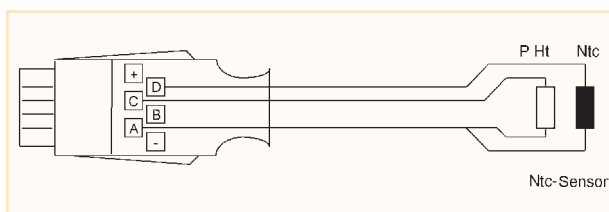
ALMEMO® Connectors for Ni100 Sensors/Ni1000 Sensors



Types:

Model	Meas. Range	Resolution	
Ni100	-60.0 to +240.0°C	0.1K	Order No. ZA9030FS3
Ni1000	-60.0 to +240.0°C	0.1K	Order No. ZA9030FS6

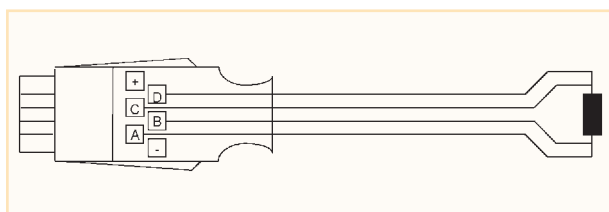
ALMEMO® Connectors for Ntc Sensors



Types:

Model	Meas. Range	Resolution	
Ntc type N	-50.0 to +125.0°C	0.01K	Order No. ZA9040FS
2xNtc type N	-50.0 to +125.0°C	0.01 K no electrical isolation	Order No. ZA9040FS2

ALMEMO® Connectors for Resistance



Types:

Model	Meas. Range	Resolution	
Ohm	0.00 to 500.00	0.01Ω *	Order No. ZA9003FS
Ohm	0.0 to 5000.0	0.1Ω *	Order No. ZA9003FS2

*Data may vary depending on device; (see data sheet per device)

01/2005 We reserve the right to make technical changes.