General ordering data

Order No.	8432300000
Part designation	WTS4 THERMO
Version	Thermoelement, 0...10 V , 0(4)...20 mA , Screw connection
EAN	4032248056910

Input

Sensor	Thermo element (IEC 584) type: K,J,T,E,N,R,S,B
Temperature input range	-200...+1820 °C
Number of inputs	1

Output

Output voltage	0...10 V
Output current	0(4)...20 mA
Load resistance, voltage	≥ 1 kΩ
Load resistance, current	≤ 500 Ω
Accuracy	Type K: -200°C...-150°C ± (5K + 0.1%); -150°C...1200°C ± (3K + 0.1%); 1200°C...1372°C ± (4K + 0.1%) Type J: -200°C...-150°C ± (4K + 0.1%); -150°C...1200°C ± (3K + 0.1%); Type T: -200°C...-150°C ± (5K + 0.1%); -150°C...400°C ± (3K + 0.1%); Type E -200°C...-150°C ± (4K + 0.1%); -150°C...1000°C ± (3K + 0.1%) Type N: -200°C...-150°C ± (6K + 0.1%); -150°C...1300°C ± (3K + 0.1%) Type R -50°C ...200°C ± (10K + 0.1%); 200°C...1760°C ± (6K + 0.1%) Type S -50°C...200°C ± (10K + 0.1%); 200°C ...1760°C ± (6K + 0.1%) Type B 50°C...250°C ± (25K + 0.1%); 250°C...500°C ± (10K + 0.1%); 500°C...1820°C ± (6K + 0.1%) -> of set range
Cold-trap compensation	Yes
Linearization	Yes
Offset voltage	max. 0.05 V
Offset current	Max. 100 µA

Weidmüller ϽE

Output

Step response time	With filter: 1.1 s; without filter: 6 s
Status indicator	Module active: LED on/ wire breakage: LED flashing/Error: LED off
Temperature coefficient	± (200 ppm from the span + 0.075 K)/K
Number of outputs	1

General data

Function	Thermocouple
Input/Output	Thermocouple type: K, J, T, E, N, R, S, B / 0(4)...20 mA; 0...10 V
Galvanic isolation	2-way isolator
Type of connection	Screw connection
Mounting rail	TS 35
Current consumption	< 38 mA at I = 20 mA
Current-carrying capacity of cross-connect.	≤ 2 A
Voltage supply	24 V DC ± 20 %
Default setting	Type K; 0...1000°C; 4...20mA; Filter: off
Ambient temperature (operational)	0 °C...+55 °C
Storage temperature	-20 °C...+85 °C

Insulation coordination

Standards	EN 50178, EN 60584, IEC 584
EMC standards	EN 55011, EN 61000-6

Dimensions

Clamping range, max.	2.5 mm²
Clamping range, min.	0.5 mm²
Clamping range, nom.	2.5 mm²
Length	92.4 mm
Height	112.4 mm
Width	12.5 mm

Approvals

Approvals institutes

Classifications

eClass 4.1	27-20-02-06
eClass 5.0	27-20-02-06
eClass 5.1	27-20-02-06

Similar products

Order No.	Part designation	Version
8432310000	WTZ4 THERMO	Thermoelement, 0...10 V , 0(4)...20 mA , Tension clamp connection

Weidmüller