

# Model DN218 Temperature Trip Amplifier



## Product features

- Input for thermocouples, RTD, Ni100, slide wire sensors
- Fully configurable with pocket configurator
- EMC to EN 61326 and NE21
- EEx ia/ib approved
- Galvanic isolation between circuits
- 2 independent trip points

## Technical data:

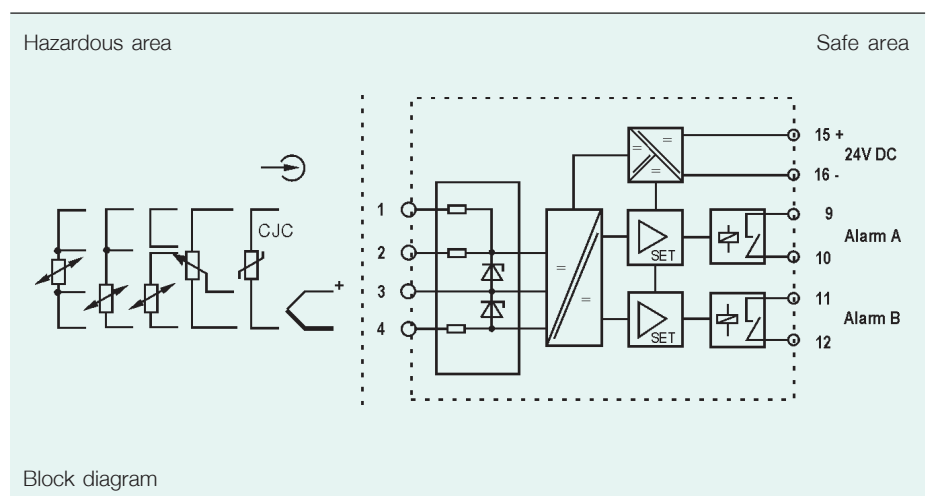
Input	Thermocouple type B, E, J, K, L, N, R, S, T, U 2, 3, 4-wire Pt100 DIN 43760 or ANSI, Ni100 or 3 wire potentiometer (50 Ω to 20 kΩ)
Input range	within rated sensor limits (-10 bis +80 mV)
Minimum span	4mV
Zero suppression	± 300% of span
Measuring current	< 0.5 mA
Line resistance compensation	< 10 W
Cold junction compensation	via external sensor
CJC influence	< ± 1 K
Burnout	enabled or disabled; programmable
Trip point range	within rated sensor limits
Trip point repeatability and stability	< 0.1 % of full scale
Response time	100 ms (10 - 90 %) min. software configurable
Hysteresis	1% default, software configurable
Relay (voltage-free contacts)	2 A, 250 V, 100 VA or 2 A, 250 V, 50 W
Power supply	20 - 30 V DC, 1.5 W max.
Weight	175 g
Ambient temperature	0 °C ... +60 °C
Relative humidity	< 75 % (average) < 95 % (30 d/a), no condensation

## Explosion protection:

Category	II (1) G D [EEx ia] II C
EC-Type Examination	DMT 03 ATEX E070 X
Safety values	Voc = 10.75 V, Isc = 8.63 mA, Po = 23.2 mW

## Ordering details

Type	Function	Ex-protection	Order No.
DN218	Temperature trip	ia/ib	GHG 137 3113 F 1019
Accessories	Handheld configurator	-	GHG 139 0033 C 0000



Don't remove terminals when energized.