



Item description

Short description:

WAGO's RTD Threshold Value Switch for RTD sensors, potentiometers and resistors monitors and reports signals of up to two switching thresholds.

Features:

- Both digital signal output and relay with make contact react to configured measuring range limits (switching ON/OFF delay and threshold value switch function configurable with up to two threshold values).



- Configurable RTD factor
- Adjustable software filter
- Input/Output response simulation via configuration display
- Safe 3-way isolation with 4 kV test voltage acc. to EN 61140

Note:

(*Additional setting options via interface configuration software or interface configuration app)

Data**Technical Data****Configuration**

Configuration options	DIP switches Interface configuration software Interface configuration app Configuration display
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Input

Input signal type	Potentiometers Resistance
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Input – RTD sensors

Sensor types (RTD)	Pt100 Pt200 Pt500 Pt1000 Pt5000 Pt10000 Pt10
Sensor connection	2-wire; 3-wire; 4-wire; difference
Max. sensor supply current (RTD)	≤ 0.5 mA
Measurement range temperature (RTD)	-200 ... 850 °C

Input – Resistors

Input range resistance	0 ... 100 kΩ
Input range potentiometer	0 ... 100 kΩ

Output – Digital

Max. continuous current (DO)	100 mA (no internal restriction)
Number of switching thresholds (DO)	1 or 2 (adjustable)
Configurable rise/fall delay time (DO)	0 ... 60 s (via software)

Output – Relay

Number of make contacts/switch on contacts	1
Contact material	AgNi (gold-plated)
Max. switching voltage	250 VAC
Limiting continuous current (relay; terminal block assembly)	6A ($\leq 60\text{ }^{\circ}\text{C}$); 3A (60 ... 70 $^{\circ}\text{C}$)
Dielectric strength open contact (AC, 1 min)	1 kV _{rms}
Pull-in time (typ.)	8 ms
Drop-out time (typ.)	4 ms
Number of switching thresholds (relay)	1 or 2 (adjustable)
Configurable rise/fall delay time (relay)	0 ... 60 s (via software)

Signal processing

Software filter, adjustable	moving mean value (filtering level: 30)
Step response	60 ms (2-wire); 360 ms (3-wire); 540 ms (4-wire); 360 ms (potentiometer)

Measurement error

Transmission error max.	$\pm 1\text{ K}$
Temperature coefficient	$\leq 0.01\text{ \%}/\text{K}$

Power supply

Type of power supply	24 VDC
Nominal supply voltage U_S	24 VDC
Supply voltage range	$\pm 30\text{ \%}$
Current consumption at supply voltage	$\leq 40\text{ mA}$ (+ I_{DO})

Safety and protection:

Test voltage (input/output/supply)	4 kV AC; 50 Hz; 1 min
Degree of protection	IP20

Connection data

Connection technology	Push-in CAGE CLAMP [®]
WAGO terminal	picoMAX [®] 5.0
Solid conductor	0.2 ... 2.5 mm ² / 24 ... 12 AWG
Fine-stranded conductor	0.2 ... 2.5 mm ² / 24 ... 12 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 Inch



Geometrical Data

Width	12.5 mm / 0.492 Inch
Height from upper-edge of DIN-35 rail	107 mm / 4.213 Inch
Depth	110 mm / 4.331 Inch

Mechanical data

Type of mounting	DIN-35 rail
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Material Data

Weight	86.5 g
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Environmental Requirements

Surrounding air (operating) temperature	-40 ... 70 °C
Surrounding air (storage) temperature	-40 ... 85 °C

Standards and specifications

Conformity marking	CE
EMC immunity to interference	EN 61000-6-2; EN 61326-2-3; EN 50121-3-2
EMC emission of interference	EN 61000-6-4; EN 61326-2-3; EN 50121-3-2
Standards/specifications	EN 61010-1

Commercial data

Country of origin	DE
GTIN	4050821676973
Product Group	6 (Interface Electronics)

Product family

JUMPFLEX Signal Conditioners

The modules offer numerous technical highlights and feature a common profile, allowing the same flexible push-in jumpers to be used across the entire JUMPFLEX® line. With its new JUMPFLEX® Signal Conditioners, WAGO is continuing to expand its existing JUMPFLEX® portfolio, offering its customers the best solutions from a single source.

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Subject to changes.

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