



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

Input

Input signal type	TC sensors Frequency
Sensor types (RTD)	Pt100 Pt200 Pt500 Pt1000 Pt5000 Pt10000 Pt10
Input range resistance	0 ... 100 k Ω
Input range potentiometer	0 ... 100 k Ω
Sensor connection	2-wire; 3-wire; 4-wire; difference
Max. sensor supply current (RTD)	0.5 mA

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)	\leq 0.5 mA
Measurement range temperature (RTD)	-200 ... 850 °C

Input – Resistors

Input range resistance	0 ... 100 k Ω
Input range potentiometer	0 ... 100 k Ω

Output

Software filter, adjustable	moving mean value (filtering level: 30)
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Output – Digital

Max. switching voltage (DO)	Supply voltage applied: -0.3 V
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
Relay contact material	AgNi (gold-plated)
Switching voltage (max.) AC	250 V
Max. switching voltage	250 VAC
Limiting continuous current (relay; terminal block assembly)	6A (≤ 60 °C); 3A (60 ... 70 °C)
Dielectric strength open contact (AC, 1 min)	1 kV _{rms}
Pull-in time (typ.)	8 ms
Drop-out time (typ.)	4 ms
Bounce time (typ)	8 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.	± 1 K
Temperature coefficient	≤ 0.01 %/K

Power supply

Type of power supply	24 VDC
Nominal supply voltage U_S	24 VDC
Supply voltage range	± 30 %
Current consumption at supply voltage	≤ 40 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 mm² / 24 ... 12 AWG
Fine-stranded conductor	0.2 ... 2.5 mm² / 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
Degree of protection	IP20

Material Data

Fire load	1.664 MJ
Weight	86.5 g

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
Customs Tariff No.	90303380900
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.