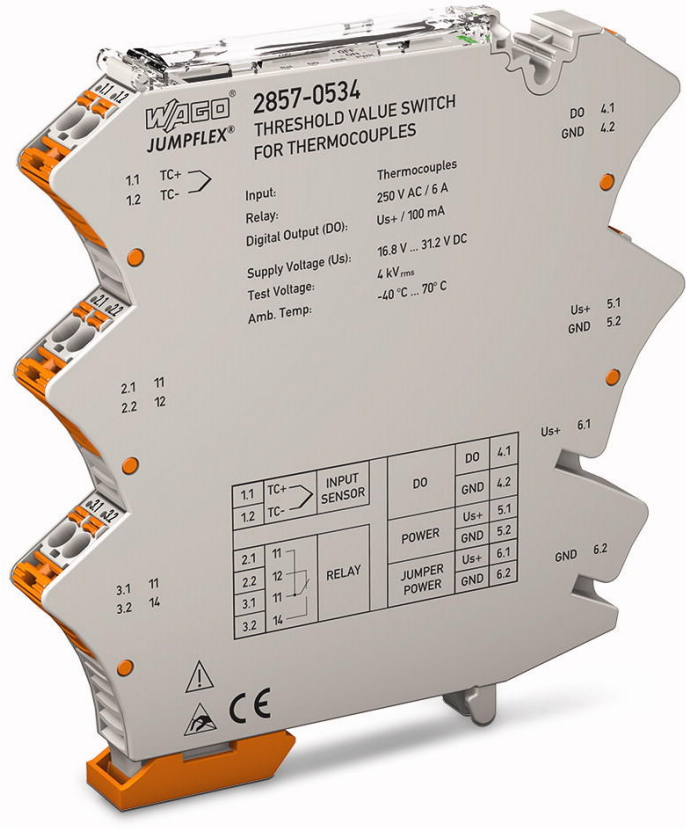
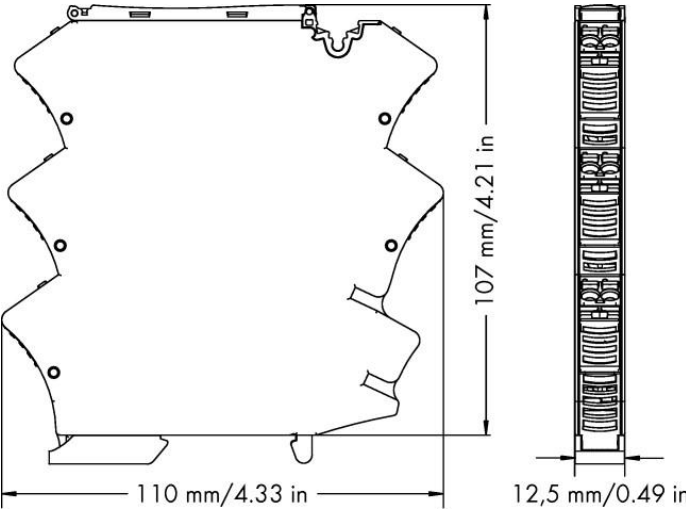




1.1	TC+	INPUT SENSOR	DO	DO	4.1
1.2	TC-			GND	4.2
2.1	11	RELAY	POWER	Us+	5.1
2.2	12			GND	5.2
3.1	11		JUMPER POWER	Us+	6.1
3.2	14			GND	6.2



Item description

Short description: WAGO's Thermocouple Threshold Value Switch for TC sensors monitors and reports signals of up to two switching thresholds.

Features:

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



filterInput/Output response simulation via configuration displaySafe 3-way isolation with 4 kV test voltage acc. to EN 61140
Note:
<p>(*Additional setting options via interface configuration software or interface configuration app)</p>

Data

Technical Data

Configuration

Configuration options

DIP switches
Interface configuration software
Interface configuration app
Configuration display

Input

Input signal type	TC sensors
Sensor types (TC)	Type J Type K Type E Type N Type R Type S Type T Type B Type C
Measurement range temperature (TC)	-210 ... 1200 °C (Type J); -200 ... 1372 °C (Type K)
Cold junction compensation	On/Off (Default: On)
Cold junction error	3 K (typ. 2 K)

Input – TC sensors

Sensor types (TC)	Type J Type K Type E Type N Type R Type S Type T Type B Type C
Measurement range temperature (TC)	-210 ... 1200 °C (Type J); -200 ... 1372 °C (Type K)
Cold junction compensation	On/Off (Default: On)
Cold junction error	3 K (typ. 2 K)



Output

Cold junction compensation	On/Off (Default: On)
Software filter, adjustable	moving mean value (filtering level: 30)
Cold junction error	3 K (typ. 2 K)

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 changeover/switchover 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 ($\leq 60\text{ °C}$); 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 (cold junction compensation off); 360 ms (cold junction compensation on)

Measurement error

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



Power supply

Type of power supply	24 VDC
Nominal supply voltage U_S	24 VDC
Supply voltage range	$\pm 30\%$
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 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	1.681 MJ
Weight	105.8 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	4055143242318
Customs Tariff No.	90303380900

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.

[Show all products from the family.](#)

Subject to changes.

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