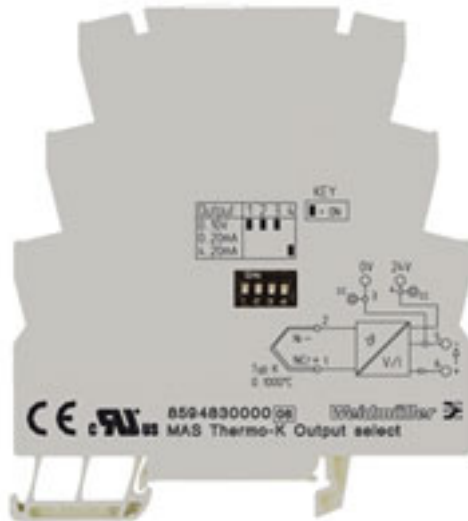


**MICROSERIES**  
**MAS Thermo-K 0...1000°C**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-2083  
www.weidmueller.com



The MAS/MAZ Thermo K/J signal isolating converters are built into a compact 6.1 mm MICROSERIES housing.&nbsp;

Conventional thermocouples can be connected to the input side, in accordance with IEC 584 type K or J.&nbsp;  
Calibrated DC current/voltage signals are available on the output. They can be selected using the DIP switches.&nbsp;  
The signal isolating converters are designed with a two-way isolation of 0.5 kV between the input and output.  
The 24 VDC power is supplied over the output circuit.

The converters are available with either screw or tension-clamp wire connection. The MI-A-PSM 24 VDC power supply module can be used with ZQV4N jumpers to cross-connect the 24 VDC supply voltage.

International approvals (such as ATEX Zone 2 and cULusEX C1D2) allow you to use this signal isolating converter in explosion-risk zones.

**General ordering data**

Order No.	<a href="#">8594830000</a>
Type	MAS Thermo-K 0...1000°C
Version	MICROSERIES, Thermocouple
GTIN (EAN)	4032248252466
Qty.	1 pc(s).

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**Technical data**

**Dimensions**

Length	88 mm	Width	6.1 mm
Height	97.8 mm		

**Temperatures**

Operating temperature	0 °C...+55 °C	Storage temperature	-20 °C...+85 °C
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**Probability of failure**

MTTF	437 Years
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**Input**

Number of inputs	1	Temperature input range	0...1000 °C
Sensor	Thermocouple acc. to IEC 584, type: K		

**Output**

Wire break detection	Output value: > 20 mA, >10 V	cold junction compensation	Yes
load impedance voltage	≥ 10 kΩ	Number of outputs	1
load impedance current	≤ 400 Ω @ 24 V	Output voltage, note	0...10V / 0...5V
Output current	0(4)...20 mA		

**General data**

Accuracy	< 0.6 % of measuring range	Current-carrying capacity of cross-connect.	≤ 20 A
Galvanic isolation	2-way isolator	Input/Output	Thermocouple type: K / 0(4)...20 mA, 0...10 V, 0...5 V
Linearity	Yes	Mounting rail	TS 35
Power consumption	ca. 0.6 W	Step response time	< 0.7 s
Supply voltage	24 V DC ± 10 %	Temperature coefficient	≤ 250 ppm/K of final value
Type of connection	Screw connection		

**Insulation coordination**

Clearance & creepage distances	≥ 1.5 mm	EMC standards	EN 55011, EN 61000-6 /-2, EN 61326
Impulse withstand voltage	1.5 kV	Insulation voltage	500 V <sub>eff</sub> / 1 s
Insulation voltage input or output/rail	500 V <sub>eff</sub>	Insulation voltage input or output/supply	500 V <sub>eff</sub>
Pollution severity	2	Rated voltage	100 V
Standards	DIN EN 50178, DIN EN 61000-4-2	Surge voltage category	III

**Classifications**

UNSPSC	30-21-18-01	eClass 5.1	27-20-02-06
eClass 6.0	27-20-02-06		

**Approvals**

Approvals	CE; CULUS; GOSTME25
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**Datasheet**

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**Drawings**

**Electric symbol**

