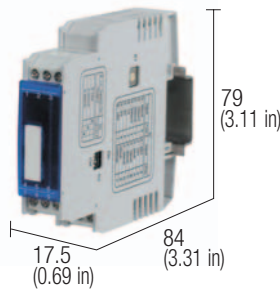


Programmable converters for thermocouples

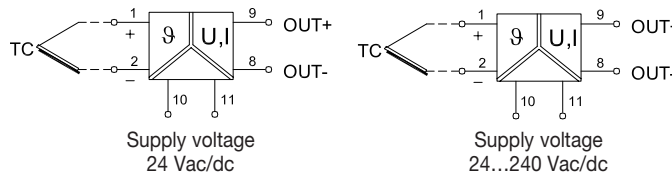
- Converters for sensors with thermocouples J and K type
- 3 ways galvanic isolation
- 8 programmable input range
- 3 programmable output range
- Simple programming
- Version with 24-240 Vac/dc supply voltage



NOTES

- The dimensions include the DIN clamp.
- (1) Adjustable via rotary-switch
 - (2) Adjustable via dip-switch
 - (3) range 16.8...30 Vdc / 19.2...28.8 Vac
 - (4) range 16.8...264 Vdc / 19.2...264 Vac
 - (5) *3-way isolation: IN/OUT/power supply

BLOCK DIAGRAM



VERSIONS

- 24 Vac/dc supply voltage
- 24-240 Vac/dc supply voltage

Cat. No. X756844

Cat. No. X756847

CWTH 6-0844

CWTH 6-0847

INPUT TECHNICAL DATA

Input signal

Temperature range (1)

thermocouples FeCuNi (J type) e NiCrNi (K type) according to DIN/IEC584-1	thermocouples FeCuNi (J type) e NiCrNi (K type) according to DIN/IEC584-1
-50...+200°C (-58...+392°F)	-50...+200°C (-58...+392°F)
-50...+350°C (-58...+662°F)	-50...+350°C (-58...+662°F)
0...+200°C (+32...+392°F)	0...+200°C (+32...+392°F)
0...+400°C (+32...+752°F)	0...+400°C (+32...+752°F)
0...+600°C (+32...+1112°F)	0...+600°C (+32...+1112°F)
0...+800°C (+32...+1472°F)	0...+800°C (+32...+1472°F)
0...+1000°C (+32...+1832°F)	0...+1000°C (+32...+1832°F)
0...+1200°C (+32...+2192°F)	0...+1200°C (+32...+2192°F)

Supply current

OUTPUT TECHNICAL DATA

Output signal (2)

Applicable load

0...10 V	0...10 V
0...20 / 4...20 mA	0...20 / 4...20 mA
>1 KΩ with output voltage, <400 Ω with output current	>1 KΩ with output voltage, <400 Ω with output current

GENERAL TECHNICAL DATA

Supply voltage	24 Vac/dc (3)	24-240 Vac/dc (4)
Rated current	≤ 35 mA ± 10% @ 24 Vdc	≤ 35 mA ± 10% @ 24 Vdc
Accuracy	<0.5% FS	<0.5% FS
Transmission frequency	<30 Hz	<30 Hz
Temperature coefficient	0.015% / K FS	0.015% / K FS
Isolation	1.5 kVac / 60 s (5)	4 kVac / 60 s (5)
ECM standards	EN 50081-2, EN 50082-2	EN 50081-2, EN 50082-2
Reference Standard	IEC 664-1, DIN VDE	IEC 664-1, DIN VDE
Overtoltage category/Pollution degree	III / 2	III / 2
Protection degree	IP20	IP20
Operating temperature range	-20...+60°C	-20...+60°C
Connection terminal	2.5 mm ² fixed screw type	2.5 mm ² fixed screw type
Housing material	Noryl UL94V-0	Noryl UL94V-0
Approx. weight	65 g (2.29 oz)	75 g (2.65 oz)
Mounting information	vertical on rail adjacent without gap	vertical on rail adjacent without gap

MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35-7.5

Mounting rail type according to IEC60715/G32

Plug-in jumper	red
(16 poles, 16 A)	white
	blue

PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB

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