Electrical specifications

Environmental conditions

Operating temperature	-20 to +60°C
Calibration temperature	20...28°C
Relative air humidity	< 95% RH (non-cond.)
Protection degree	IP50

Mechanical specifications

Dimensions (HxWxD) (D is excl. pins)	80.5 x 35.5 x 84.5 mm
Weight	140 g

Common specifications

Supply voltage	19.2...28.8 VDC
Internal consumption	2.5 W
Max. consumption	3 W
Isolation test / operation	3.75 kVAC / 250 VAC
PELV/SELV	IEC 61140
Signal / noise ratio	Min. 60 dB
Signal dynamics, input	20 bit
Proportional band (XP)	0.01...999 %
Gain, 1/XP =	0.1...10000 gg
Integrating time (TI)	0...999 s
Differentiating time (TD)	0...999 s
Neutral zone (nEU)	0...99.9 %
Pulse time (TP)	0.01...400 s
Minimum pulse time (TP)	0.01...10 s
Response time	< 60 ms
Temperature coefficient	< ± 0.01% of span/°C
Linearity error	< ± 0.1% of span
Effect of supply voltage change	< ± 0.002% of span/%V
Auxiliary voltages:	
Reference voltage	2.5 VDC ± 0.5% / 15 mA
EMC immunity influence	< ± 0.5%

Electrical specifications - INPUT

Current input

Measurement range	0...20 mA
Min. measurement range (span)	4 mA
Max. offset	50% of selected max. value
Input resistance	50 Ω

Voltage input

Measurement range	0...10 VDC
Min. measurement range (span)	200 mV
Max. offset	50% of selected max. value
Input resistance	Nom. 10 MΩ

Pt100 input 2286B

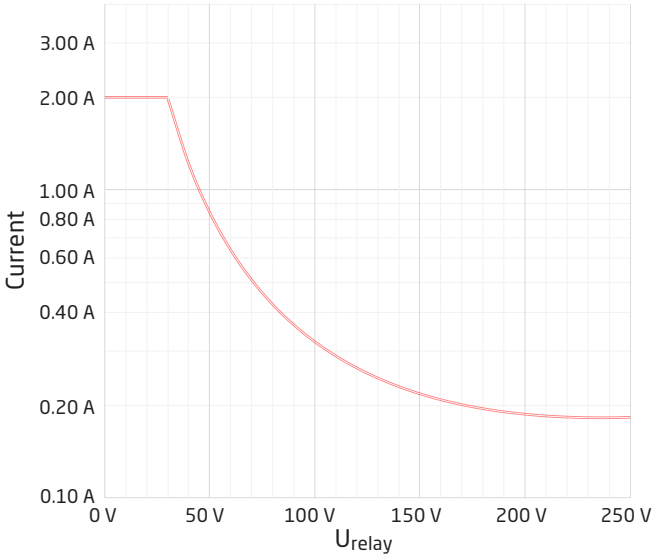
Measurement range	-99...+850°C
Min. measurement range (span)	50°C
Max. offset	50% of selected max. value
Cable resistance per wire (max.)	25 Ω
Sensor current	Nom. 1.25 mA
Response time	< 100 ms
Basic accuracy	< ± 0.2°C
Temperature coefficient:	
span < 100°C	± 0.01°C/°Camb.
span > 100°C	± 0.01% of span/°Camb.
Immunity influence:	
span ≤ 100°C	1% of span
span ≥ 100°C	0.5% of span
Effect of sensor cable resistance	< 0.002 Ω/Ω

Electrical specifications - OUTPUT

Relay outputs

Max. voltage . . . . . 250 VAC / VDC
Max. AC current. . . . . 2 A
Max. AC power . . . . . 500 VA
Max. DC current, resistive load:
@ U_{relay} ≤ 30 VDC . . . . . 2 ADC
@ U_{relay} >30 VDC. . . . . [1380 x U_{relay}^{-2} x $1.0085^{U_{relay}}$] ADC

Graphic depiction of [1380 x U_{relay}^{-2} x $1.0085^{U_{relay}}$]:



Observed authority requirements

EMC. . . . . 2014/30/EU & UK SI 2016/1091
LVD . . . . . 2014/35/EU & UK SI 2016/1101
RoHS . . . . . 2011/65/EU & UK SI 2012/3032
EAC . . . . . TR-CU 020/2011

Of span = Of the presently selected range