

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









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Ex-i temperature measuring transducer: Converts signals from Pt 100 resistance thermometers installed in Ex areas and transmits a 4 - 20 mA signal to a load in a safe area. Freely programmable. Galvanic 3-way isolation. Configurable.



Key commercial data

Packing unit	1 PCE
Weight per Piece (excluding packing)	98.0 GRM
Custom tariff number	85389091
Country of origin	Germany

Technical data

Dimensions

Width	12.4 mm
Height	145 mm
Depth	147 mm

Ambient conditions

Ambient temperature (operation)	-20 °C 55 °C
Ambient temperature (storage/transport)	-40 °C 80 °C
Degree of protection	IP20

Input data

Input	Intrinsically safe
Configurable/programmable	Freely programmable, unconfigured
Sensor types (RTD) that can be used	2 or 3-conductor Pt 100 sensors as well as resistance-type sensors
Connection method	2, 3-wire
Temperature measuring range	-200 °C 850 °C (Range depending on the sensor type)



Technical data

Input data

Input signal range	0 Ω 400 Ω (Minimum measuring range 10 Ω)
Input accuracy	\pm 80 m Ω

Output data

Signal output	Current output
Current output signal	4 mA 20 mA
Load/output load current output	≤ 600 Ω
Behavior in the event of a sensor error	upscale, downscale or off, LED flashes
Measuring accuracy	± 11 μA

Power supply

Supply voltage range	20 V DC 30 V DC
Max. current consumption	64 mA (24 V DC/ 20 mA)
Power consumption	1.5 W (24 V DC/ 20 mA)

Connection data

Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	14
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

General

No. of channels	1
Maximum transmission error	< 0.1 % (of end value 20 mA, at 0 Ω 400 Ω input range, 20°C)
Status display	Green LED, for power supply, flashes in the case of sensor defect
Inflammability class according to UL 94	V0
Housing material	PBT and polyamide PA non-reinforced
Color	green
Name	Input/output
Electrical isolation	250 V
Name	Input/power supply
Electrical isolation	250 V
Name	Output/supply
Electrical isolation	1.5 kV (50 Hz, 1 min., test voltage)
Conformance	CE-compliant



Technical data

General

ATEX	# II (1) GD [EEx ia] IIC
UL, USA / Canada	"Intrinsically safe 'Entity" Connection [AEx ia] IIC, [Ex ia] IIC

Safety data

Max. output voltage U₀	6.6 V
Max. output current I _o	27 mA
Max. output power P _o	50 mW
Gas group	IIB
Max. external inductivity L _o	178.4 mH
Max. external capacity C _o	500 μF
Gas group	IIC
Max. external inductivity L _o	48.7 mH
Max. external capacity C _o	22 μF
Safety-related maximum voltage U _m	250 V AC

Classifications

eCl@ss

eCl@ss 4.0	27210107
eCl@ss 4.1	27210107
eCl@ss 5.0	27210107
eCl@ss 5.1	27210107
eCl@ss 6.0	27210107
eCl@ss 7.0	27210107

ETIM

ETIM 2.0	EC001446
ETIM 3.0	EC001446
ETIM 4.0	EC001446
ETIM 5.0	EC001446

UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	39121008



Accessories

Additional products

Basic terminal block - PI-EX-TB - 2835901



Ex base terminal block for intrinsically safe signals with knife disconnection and test connections

Surge protection device - TT-PI-EX-TB - 2858386



Intrinsically safe basic terminal block with isolating connector, test connections and surge protection, for mounting on NS 35/7.5

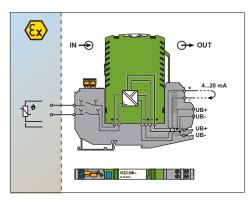
Basic terminal block - PI-EX-ES-1/3 - 2835325



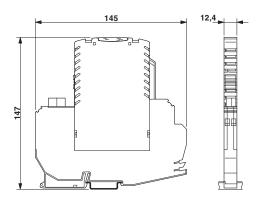
Ex basic terminal block, with three terminal points to the field level (Ex area)

Drawings

Block diagram



Dimensioned drawing





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