

PI-EX-RTD-I-NC

Order No.: 2835590



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2835590>

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.



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Commercial data

GTIN (EAN)	4017918890797
sales group	H710
Pack	1 pcs.
Customs tariff	85389091
Weight/Piece	0.098 KG
Catalog page information	Page 383 (IF-2007)

Technical data

Measurement input

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
Input signal range	0 Ω ... 400 Ω (Minimum measuring range 10 Ω)
Input accuracy	± 80 mΩ

Measurement output

Signal output	Current output
Current output signal	4 mA ... 20 mA
Load/output load current output	$\leq 600 \Omega$

Power supply

Range of supply voltages	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 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
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 data

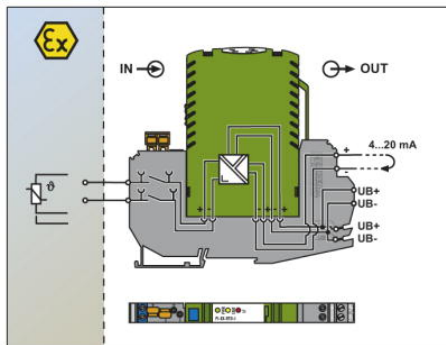
No. of channels	1
Transmission error, max.	< 0.1 % (of end value 20 mA, at 0 Ω ... 400 Ω input range, 20°C)
Ambient temperature (operation)	-20 °C ... 55 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Status display	Green LED, for power supply, flashes in the case of sensor defect
Width	12.4 mm
Depth	147 mm
Height with coupling plug NS 35/7,5	145 mm
Inflammability class acc. to UL 94	V0
Housing material	PBT and polyamide PA non-reinforced
Color	green
Conformity	CE compliant
ATEX	Ex II (1) GD [Ex ia] IIC
UL, USA / Canada	"Intrinsically safe 'Entity'" Connection [AEx ia] IIC, [Ex ia] IIC

Additional products

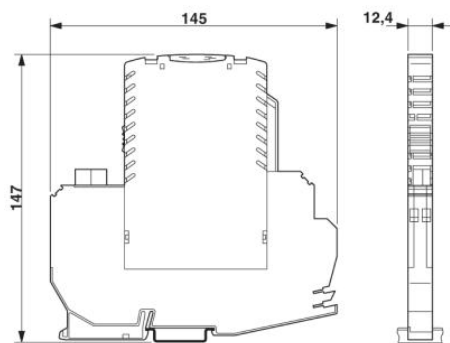
Item	Designation	Description
General		
2835325	PI-EX-ES-1/3	Ex basic terminal block, with three terminal points to the field level (Ex area)
2835901	PI-EX-TB	Ex base terminal block for intrinsically safe signals with knife disconnection and test connections
2858386	TT-PI-EX-TB	Intrinsically safe basic terminal block with isolating connector, test connections and surge protection, for mounting on NS 35/7,5

Diagrams/Drawings

Block diagram



Dimensioned drawing



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