



## 2-wire programmable transmitter

## 6333B

- RTD or Ohm input
- High measurement accuracy
- 3-wire connection
- Can be installed in Ex zone 0
- 1- or 2-channel version























## Application

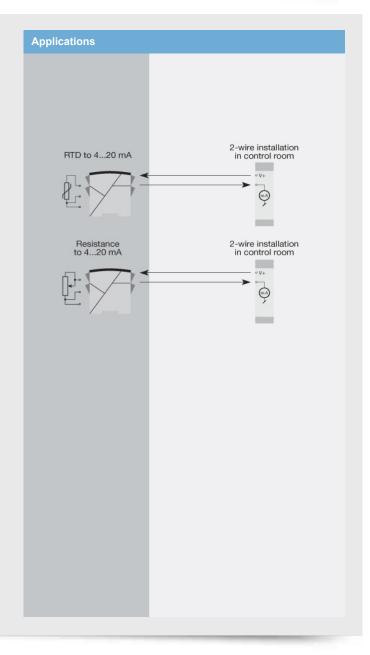
- · Linearized temperature measurement with Pt100...Pt1000 or Ni100...Ni1000 sensor.
- · Conversion of linear resistance variation to a standard analog current signal, for instance from valves or Ohmic level sensors.

#### **Technical characteristics**

- Within a few seconds the user can program PR6333B to measure temperatures within all RTD ranges defined by the norms.
- The RTD and resistance inputs have cable compensation for 3wire connection.
- · A limit can be programmed on the output signal.

### Mounting / installation

- · Mounted vertically or horizontally on a DIN rail. Using the 2channel version, up to 84 channels can be mounted per meter.
- The 6333B can be mounted in zone 0, 1, 2 and zone 21, 22 including M1 / Class I, Division 1, Groups A, B, C, D.



## Order

Туре	Version			Galvanic isolation	Channels	
6333	Zone 0, 1, 2, 21, 22, M1 / DIV. 1, DIV. 2	: B	None		Single Double	: A : B

-40°C to +85°C -40°C to +85°C 2028°C . < 95% RH (non-cond.)
. 109 x 23.5 x 104 mm 145 / 185 g DIN EN 60715/35 mm 0.132.08 mm <sup>2</sup> AWG 2614 stranded wire 0.5 Nm
8.030 VDC ≤ 0.8 W/≤ 1.6 W (1 ch./2 ch.) 0.190.8 W
0.3360 s 8.0 VDC 5 min. Loop Link Min. 60 dB Better than 0.1% of sel. range 19 bit 16 bit < 0.005% of span / VDC
. 50% of selected max. value
Pt100, Ni100, lin. R 10 $\Omega$ (max.) > 0.2 mA, < 0.4 mA < 0.002 $\Omega$ / $\Omega$ Yes
0 Ω10000 Ω

# **Output specifications**

Current output	
Signal range	420 mA
Min. signal range	16 mA
Load (@ current output)	$\leq$ (Vsupply - 8) / 0.023 [ $\Omega$ ]
Load stability	≤ 0.01% of span / 100 Ω
Sensor error indication	Programmable 3.523 mA
NAMUR NE43 Upscale/Downscale	23 mA / 3.5 mA
Common output specifications	
Updating time	135 ms
of span	= of the presently selected range
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## Observed authority requirements

Annroyala	
EAC Ex	TR-CU 012/2011
EAC	TR-CU 020/2011
RoHS	2011/65/EU & UK SI 2012/3032
ATEX	2014/34/EU & UK SI 2016/1107
EMC	2014/30/EU & UK SI 2016/1091

#### Approvals

Approvato	
ATEX	DEKRA 20ATEX0105X
IECEx	DEK 20.0062X
FM	FM17US0013X
CSA	1125003
EAO E	DILO DICHACE DI COSEE/40