

2-WIRE PROGRAMMABLE IN-HEAD TRANSMITTER

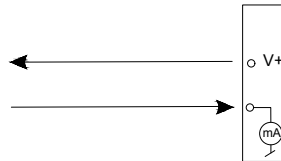
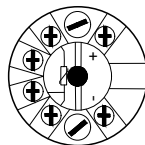
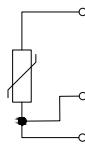


TCX-5333A

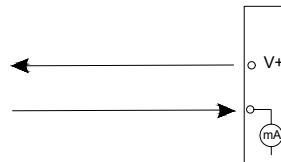
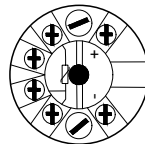
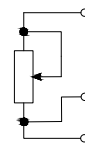
FEATURES / BENEFITS

- RTD or Ohm input
- High measurement accuracy
- 3-wire connection
- Programmable sensor error value
- For DIN form B sensor head mounting

ORDER YOUR TRANSMITTER: Use the part number: **TCX-5333A**



RTD to 4-20 mA



Resistance to 4-20 mA

2-WIRE PROGRAMMABLE IN-HEAD TRANSMITTER

SPECIFICATIONS

Environmental Conditions	
Operating Temperature	-40°C to +85°C
Calibration Temperature	20°C to 28°C
Relative humidity	< 98% RH (non-condensing)
Protection degree (enclosure/terminal)	IP68 / IP00
Mechanical Specifications	
Dimensions	Ø 44 x 20.2 mm
Weight approx.	50 g
Wire size	1 x 1.5 mm ² / stranded wire
Screw terminal torque	0.4 Nm
Vibration	IEC 60068-2-6
2...25 Hz	±1.6 mm
25...100 Hz	±4 g
Common Specifications	
Supply voltage	8.0...35 VDC
Internal power dissipation	25 mW...0.8 W
Response time (programmable)	0.33...60 s
Voltage drop	8.0 VDC
Warm-up time	5 min.
Programming	Loop Link
Signal / noise ratio	Min. 60 dB
Accuracy	Better than 0.1% of selected range
Signal dynamics, input	19 bit
Signal dynamics, output	16 bit
Effect of supply voltage change	< 0.005% of span / VDC
EMC immunity influence	< ±0.5% of span

Input Specifications	
Max. offset	50% of selected max. value
RTD type	Pt100, Ni100, lin. R
Cable resistance per wire	10 Ω max.
Sensor current	> 0.2 mA, <0.4 mA
Effect of sensor cable resistance	< 0.002 Ω / Ω
Sensor error detection	Yes
Linear resistance min / max	0 Ω...10000 Ω
Output Specifications	
Signal range	4...20 mA
Min. signal range	16 mA
Load (@ current output)	≤ (Vsupply - 8) / 0.023 [Ω]
Load stability	≤ 0.01% of span / 100 Ω
Sensor error indication	Programmable 3.5...23 mA
NAMUR NE43 Upscale/Downscale	23 mA / 3.5 mA
Updating time	135 ms
of span	= of the presently selected range
Observed Authority Requirements	
EMC	2014/30/EU
EAC	TR-CU 020/2011
Approvals	
EU RO Mutual Recognition Type Approval	MRA0000009
ATEX 2014/34/EU	KEMA 10ATEX0003 X
IECEX	DEK 13.0036X
INMETRO	DEKRA 16.0014 X
CCOE	P337392/3
DNV-GL Marine	Stand. f. Certific. No. 2.4