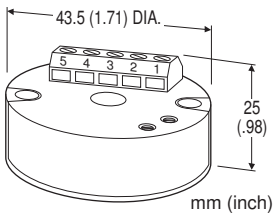
Head-mounted Two-wire Signal Conditioners
26-UNIT

RTD TRANSMITTER
(isolated)

Functions & Features
- Accepts direct input from an RTD and provides a standard 4 – 20 mA DC signal
- Linearization and burnout
- Wide operating temperature range suitable for harsh environments

Typical Applications
- Mounting in a sensor connection head minimizes noise effect and signal degradation



MODEL: 26RS–[1][2]

ORDERING INFORMATION
- Code number: 26RS-[1][2]

Specify a code from below for each of [1] and [2].
(e.g. 26RS-4/K/BL)
- Temperature range (e.g. 0 – 100°C)

[1] INPUT RTD (2- or 3-wire)
1: JPt 100 (JIS '89)
(Usable range: -100 to +500°C, -148 to +932°F, min.span: 50°C, 90°F)
3: Pt 100 (JIS '89)
(Usable range: -100 to +650°C, -148 to +1202°F, min.span: 50°C, 90°F)
4: Pt 100 (JIS '97, IEC)
(Usable range: -100 to +850°C, -148 to +1562°F, min.span: 50°C, 90°F)
5: Pt 50Ω (JIS '81)
(Usable range: -100 to +500°C, -148 to +932°F, min.span: 100°C, 180°F)
6: Ni 508.4 Ω
(Usable range: -50 to +200°C, -58 to +392°F; min.span: 30°C, 54°F)
Note: Consult M-System for 2-wire RTD

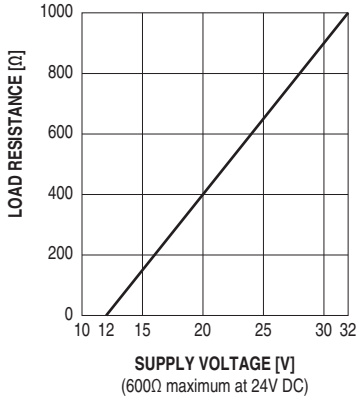
[2] OPTIONS (multiple selections)
Response Time (0 – 90 %)
blank: Standard (≤ 0.5 sec.)
/K: Fast Response (Approx. 25 msec.)

Burnout
blank: Upscale burnout
/BL: Downscale burnout

GENERAL SPECIFICATIONS
Construction: Sensor head-mounting
Connection: Euro type terminal
Applicable wire size: 0.14 – 1.5 mm^2, stripped length 6 mm
Housing material: Flame-resistant resin (black)
Isolation: Input to output
Zero adjustment: -1 to +1 % (front)
Span adjustment: 99 to 101 % (front)
Linearization: Standard

INPUT SPECIFICATIONS
Maximum leadwire resistance: 20 Ω per wire (3-wire)
Sensing current: 0.7 mA (Pt); 0.35 mA (Ni 508.4 Ω)

OUTPUT SPECIFICATIONS
Output: 4 – 20 mA DC
Load resistance vs. supply voltage:
Load Resistance (Ω) = (Supply Voltage (V) – 12 (V)) ÷ 0.02 (A) (including leadwire resistance)



INSTALLATION
Supply voltage: 12 – 32 V DC
Operating temperature: -40 to +85°C (-40 to +185°F)
Operating humidity: 0 to 90 %RH (non-condensing)
Mounting: Head-mounting (DIN type B head)
Weight: 20 g (0.71 oz)

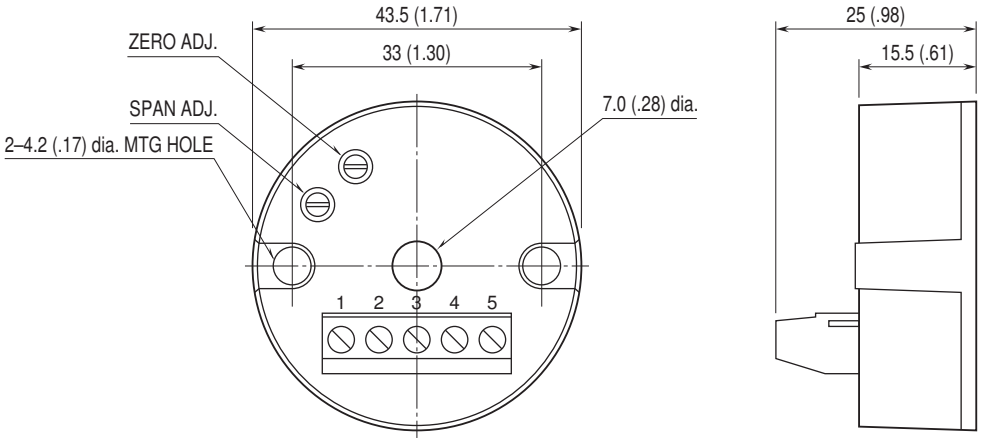
PERFORMANCE in percentage of span
Accuracy: ±0.2 %
Temp. coefficient: ±0.02 %/°C (±0.01 %/°F)
Burnout response: ≤ 10 sec.
Insulation resistance: ≥ 100 MΩ with 500 V DC
Dielectric strength: 2000 V AC @1 minute

(input to output to ground)

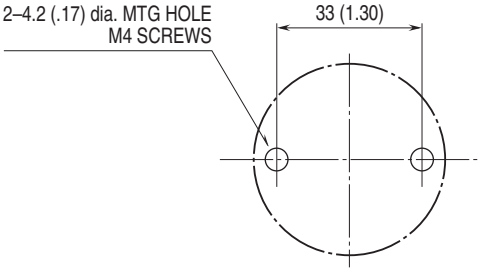
STANDARDS & APPROVALS

EU conformity:
EMC Directive
EMI EN 61000-6-4
EMS EN 61000-6-2
RoHS Directive

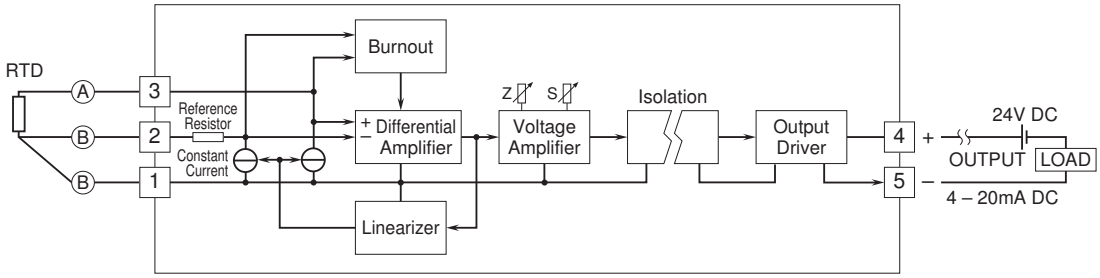
EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



MOUNTING REQUIREMENTS unit: mm (inch)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



⚠ Specifications are subject to change without notice.