



100 Ohm RTD Sensor
AD-100
900523

Albion Devices, Inc.

531 Stevens Ave West
Solana Beach, CA 92075
858-792-9585
www.albiondevices.com

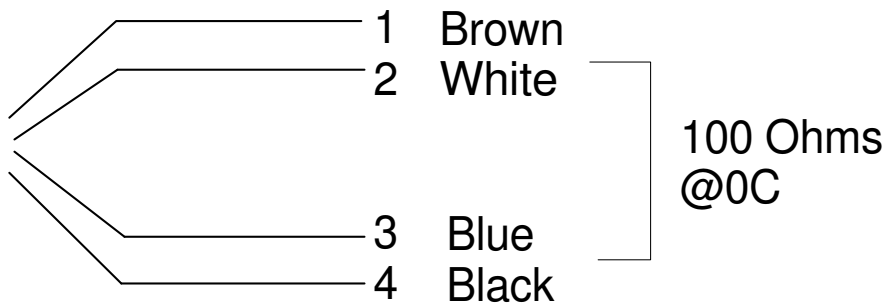
Albion AD-100 RTD Sensor

This sensor is built around a platinum 100 temperature sensor, made from a 100 Ω , .00385 alpha element. Tolerance $\pm .15^\circ\text{C}$ at 0°C for the element only. Accuracy for the complete sensor assembly may vary depending on the application.

The sensing element is mounted behind a thin carbide disk in the sensor head. This spring-loaded head is allowed to float in the sensor housing so as to permit alignment with the Workpiece surface.

Connections:

A 4-wire sensor cable is used for the sensor assembly, but connections can be 2 or 4-wire, the 4-wire allowing the cables resistance error to be removed resulting in better accuracy. Sensor can be used only on a platinum 100 ohm, .00385 alpha meter input.

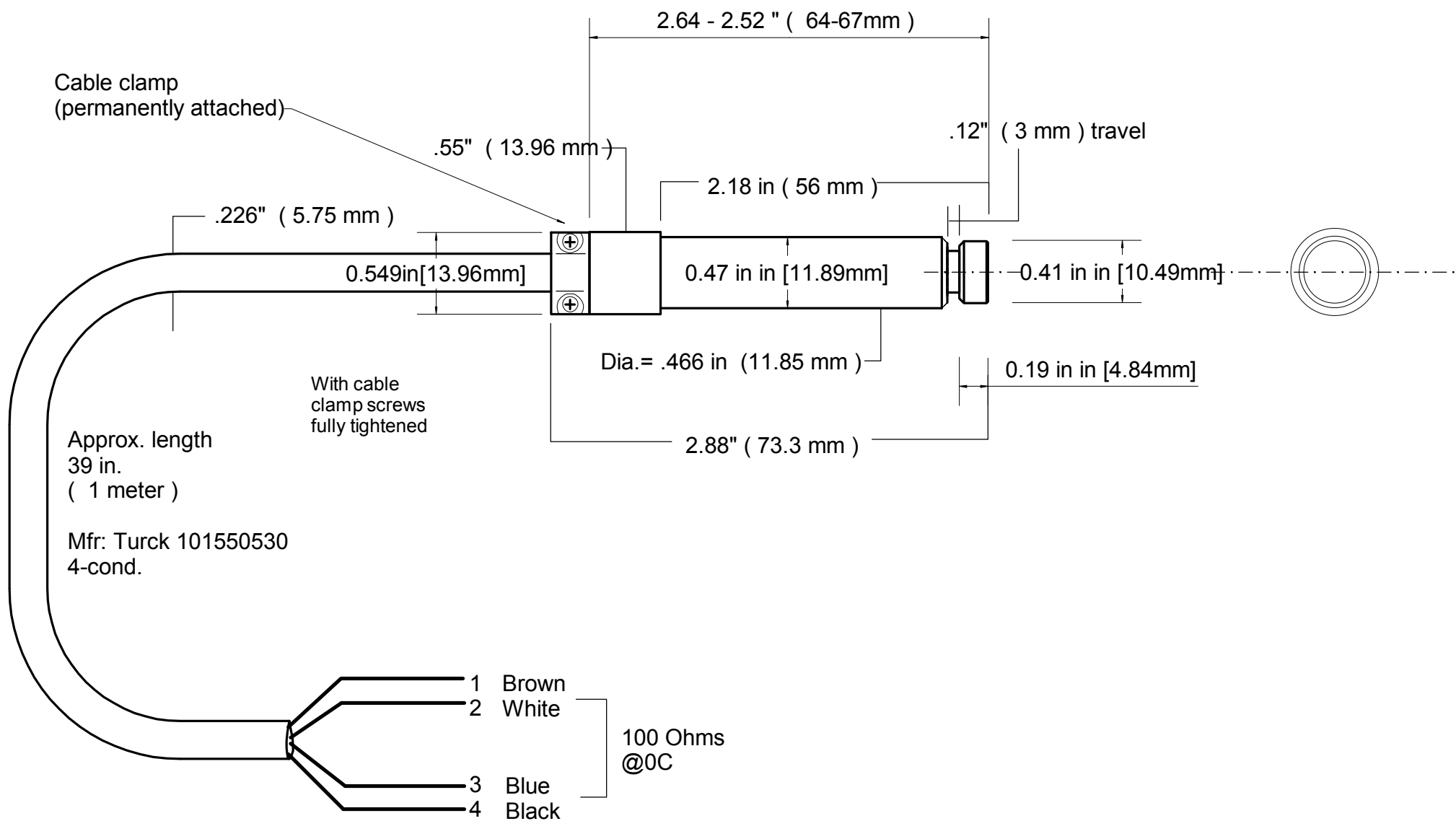


Specifications:

- Spring force: approx. 3 oz @ 50% spring compression.
- Speed of response: approx.. 2-3 seconds, flat, smooth surface.
- Weight: 2 oz.
- Storage temp: 0-70C
- Measurement range: 0-100C
- Humidity range: 0-100%
- Sensing element: platinum RTD 100 ohm
Class A = $\pm(0.15C + 0.002 \cdot t)^\circ\text{C}$ or 100.00 ± 0.06 ohm at 0°C

European standard, also known as the DIN or IEC standard, is considered the world-wide standard for platinum RTDs. This standard, DIN/IEC 60751 (or simply IEC751), requires the RTD to have an electrical resistance of 100.00Ω at 0°C and a temperature coefficient of resistance (TCR) of $0.00385 \Omega/\Omega/^\circ\text{C}$ between 0 and 100°C .

{end}



MAG A.1210.7474

* Replaces P/N 650654

DATE:

10-25-12

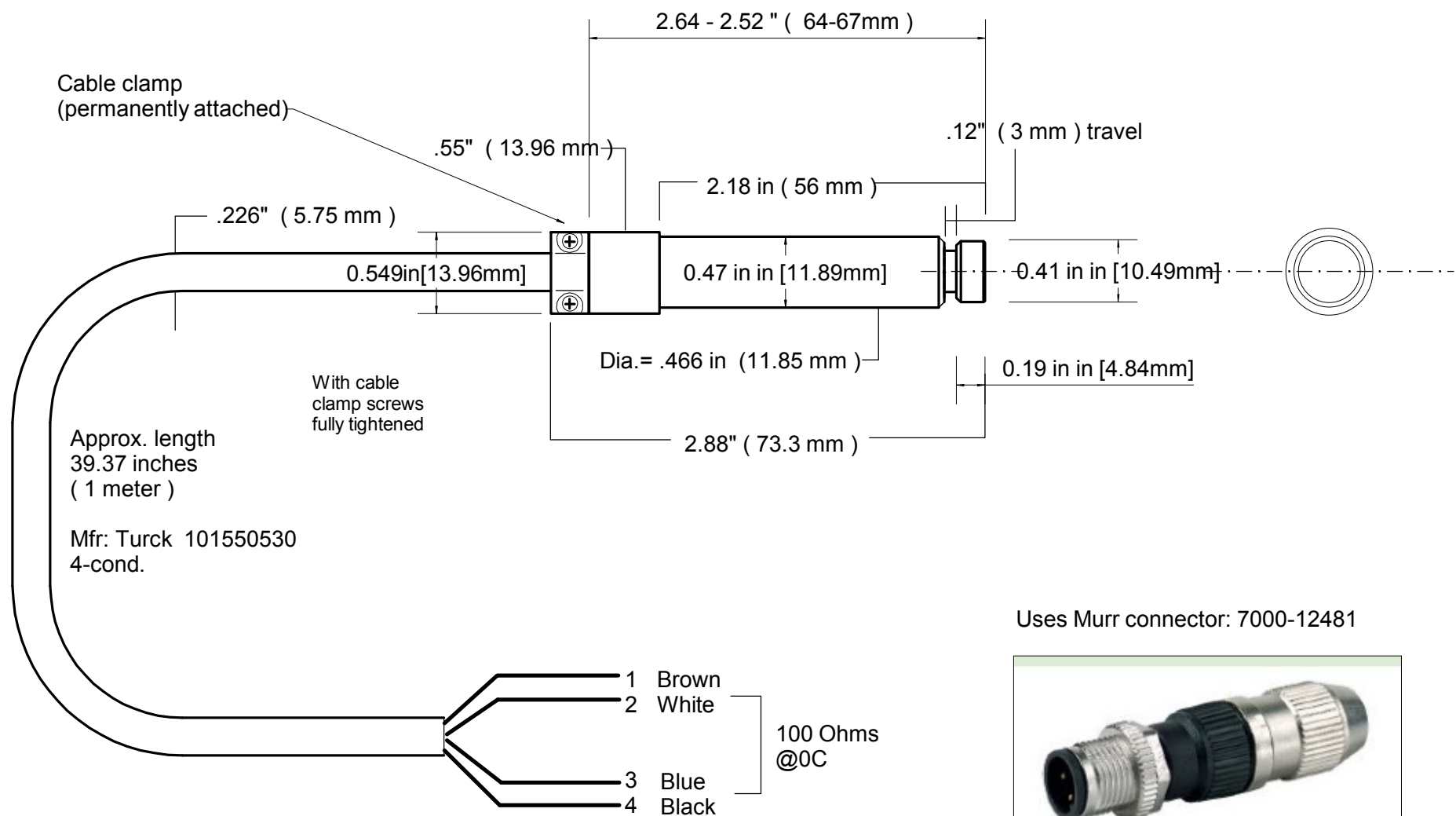
P/N:* 900523

REV. A

ALBION DEVICES

DESCR:

AD-100 Sensor
with 1 meter cable,
no connector



Uses Murr connector: 7000-12481



MAG X.1015.4235

DATE:

10-25-12

P/N:

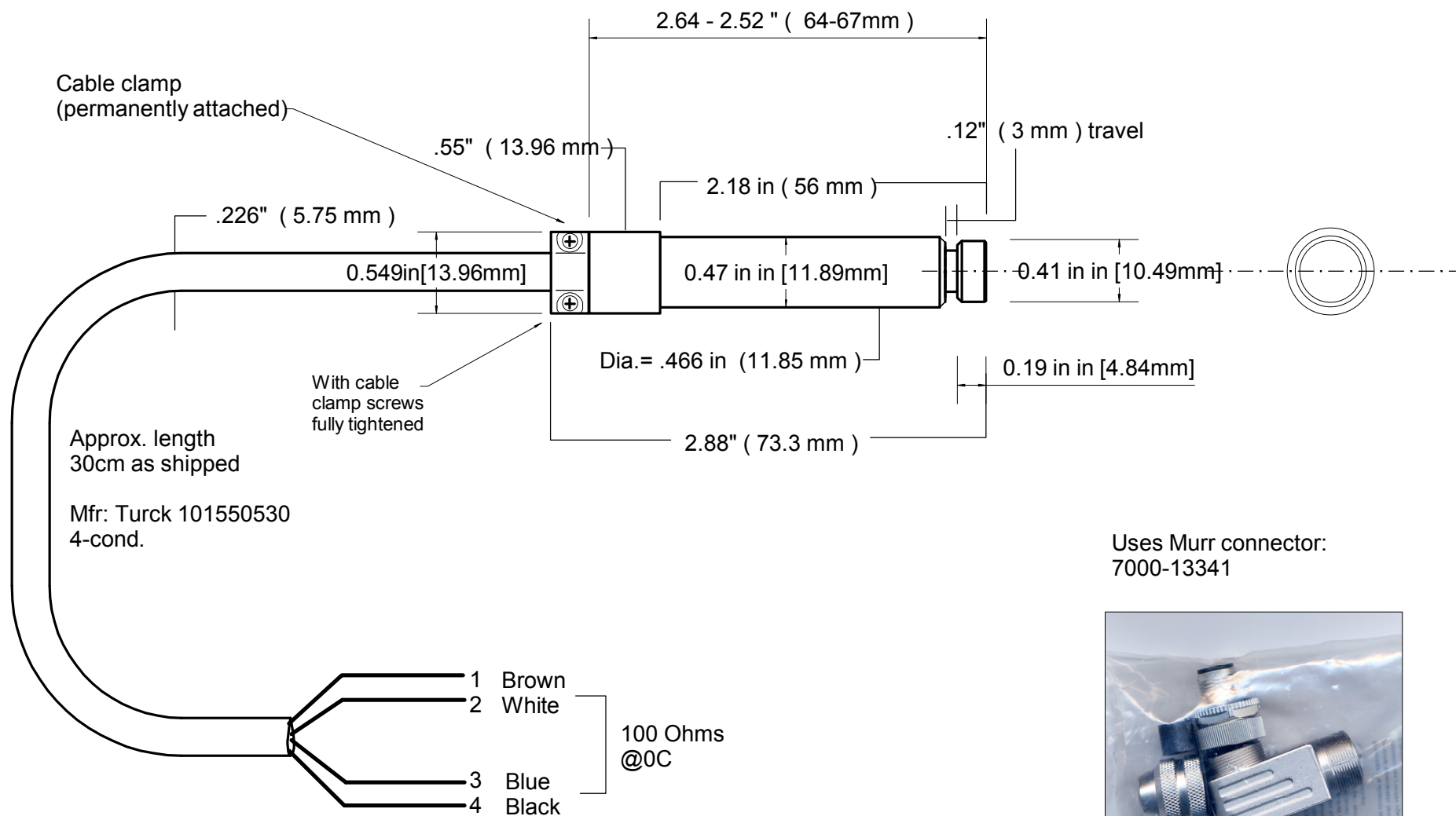
900527

REV. A

ALBION DEVICES

DESCR:

AD-100 Sensor
w/ Murr Connector,
7000-12481



Uses Murr connector:
7000-13341



MAG X.1015.9064

DATE:

10-25-12

P/N:

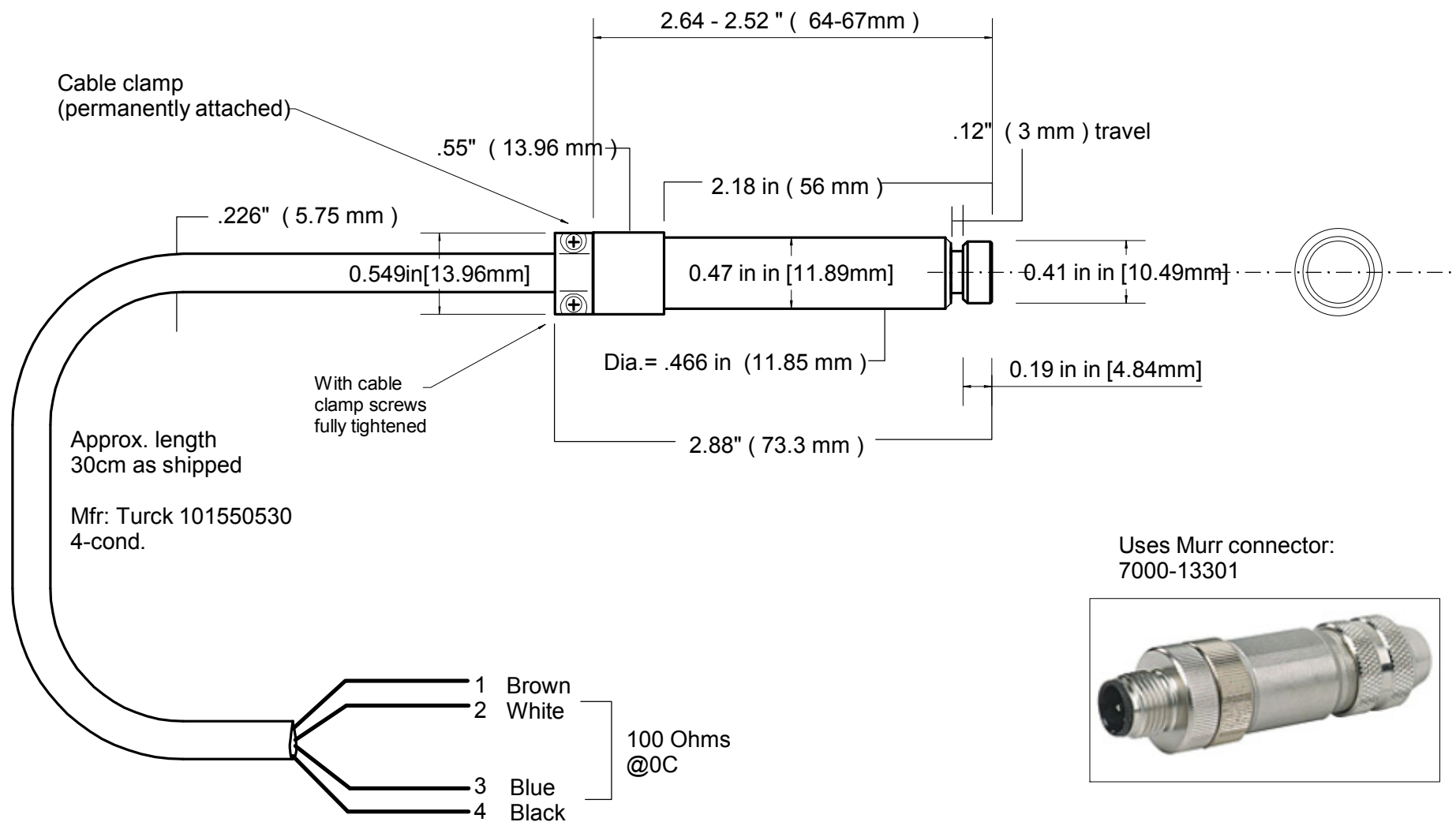
900528

REV. A

ALBION DEVICES

DESCR:

AD-100 Sensor
w/ Murr Connector,
7000-13341



Uses Murr connector:
7000-13301



MAG A.1323.9389

DATE:

10-25-12

P/N:

900539

REV.

ALBION DEVICES

DESCR:

AD-100 Sensor
w/ Murr Connector,
7000-13301



100 Ohm RTD Sensor AD-200

P/N 900524

Albion Devices, Inc.

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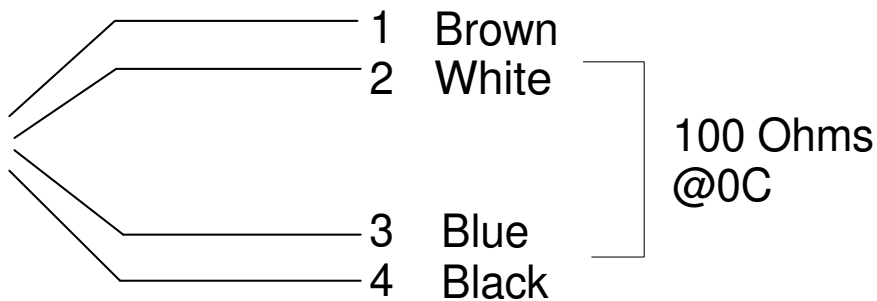
Albion AD-200 RTD Sensor

This sensor is built around a platinum 100 temperature sensor, made from a 100 Ω , .385 alpha element. Tolerance +/- .15 C at 0° C for the element only. Accuracy for the complete sensor assembly may vary depending on the application.

The sensing element is mounted behind a thin carbide disk in the sensor head. This spring-loaded head is allowed to float in the sensor housing so as to permit alignment with the Workpiece surface.

Connections:

A 4-wire sensor cable is used for the sensor assembly, but connections can be 2 or 4-wire, the 4-wire allowing the cables resistance error to be removed resulting in better accuracy. Sensor can be used only on a platinum 100 ohm, .00385 alpha meter input.

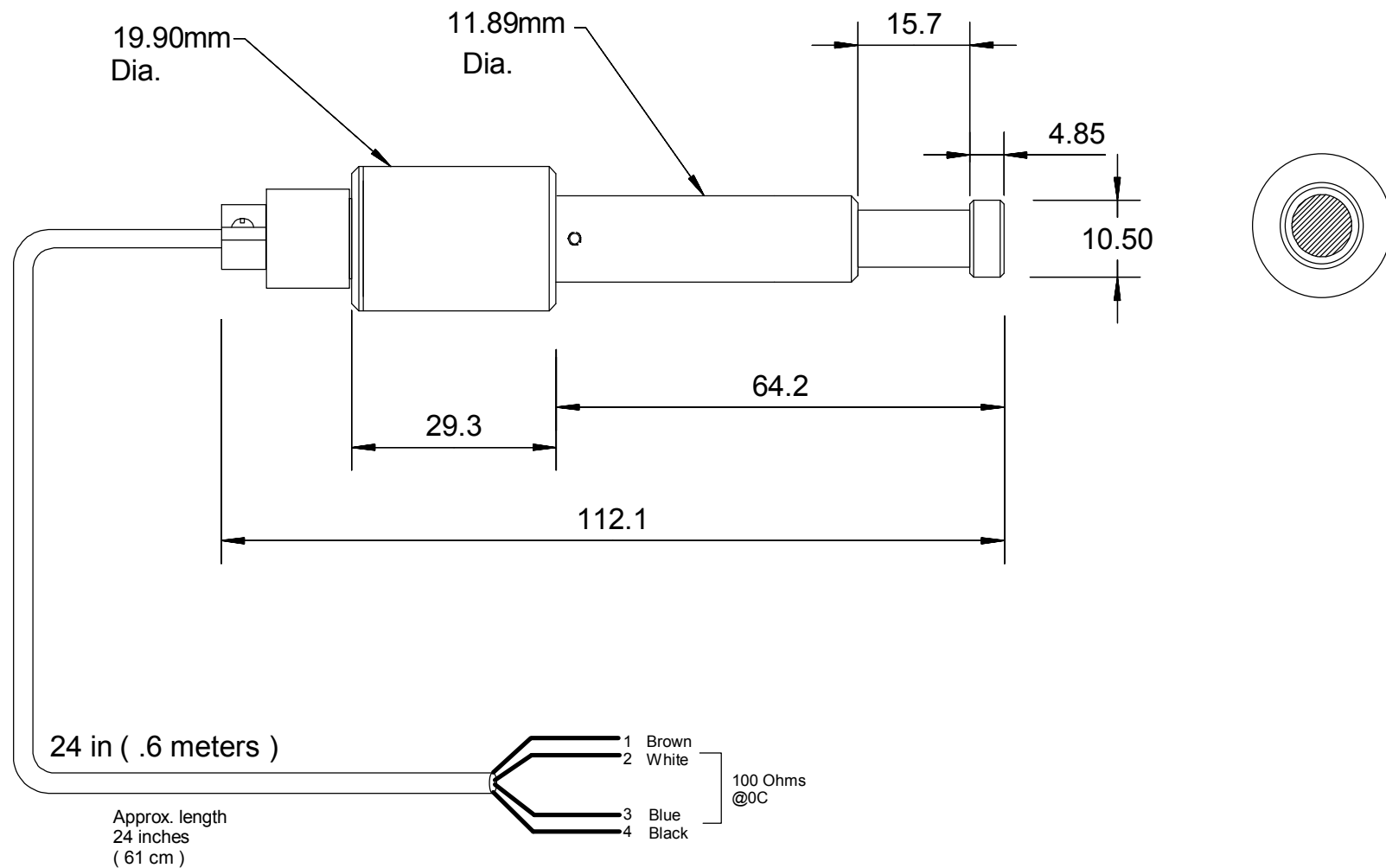


Specifications:

- Spring force: approx. 12 oz @ 50% spring compression.
- Speed of response: approx.. 2-3 seconds, flat, smooth surface.
- Weight: 3 oz.
- Storage temp: 0-70C
- Measurement range: 0-100C
- Humidity range: 0-100%
- Sensing element: platinum RTD 100 ohm
Class A = $\pm(0.15C + 0.002 \cdot t)^\circ\text{C}$ or 100.00 ± 0.06 ohm at 0°C

European standard, also known as the DIN or IEC standard, is considered the world-wide standard for platinum RTDs. This standard, DIN/IEC 60751 (or simply IEC751), requires the RTD to have an electrical resistance of 100.00Ω at 0°C and a temperature coefficient of resistance (TCR) of $0.00385 \Omega/\Omega/^\circ\text{C}$ between 0 and 100°C .

{end}



Approx. length
24 inches
(61 cm)

Mfr: Turck 101550530
4-cond.

MAG T.1044.4084

DATE:
10-25-12

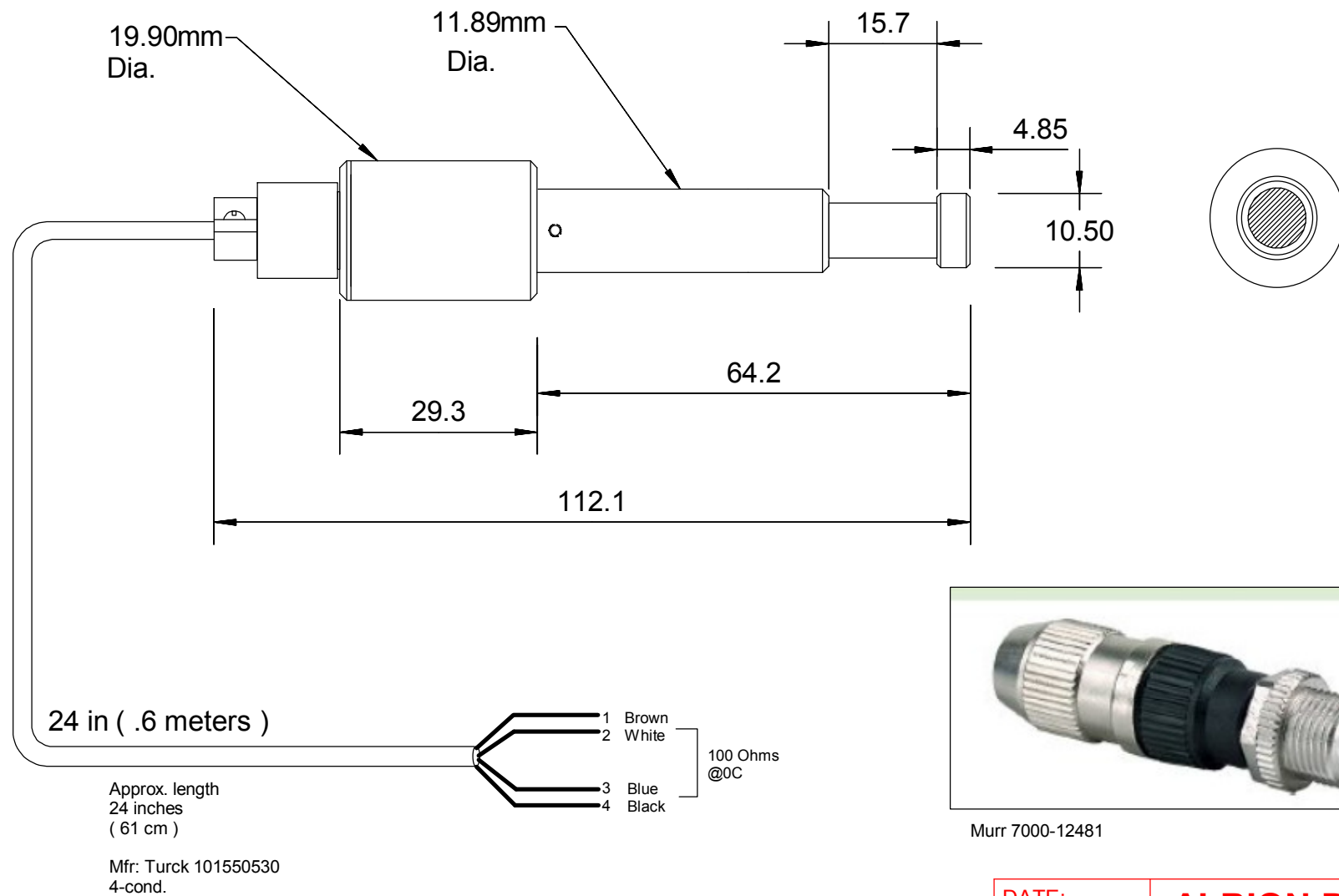
P/N: 900524

REV. B

ALBION DEVICES

DESCR:

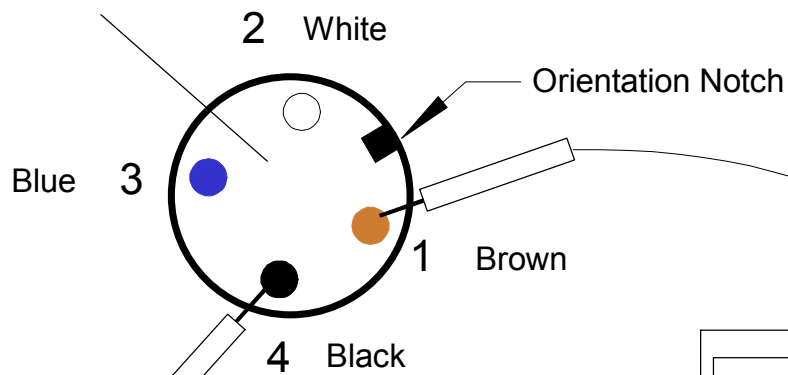
AD-200 Sensor,
15.7mm stroke



Murr 7000-12481

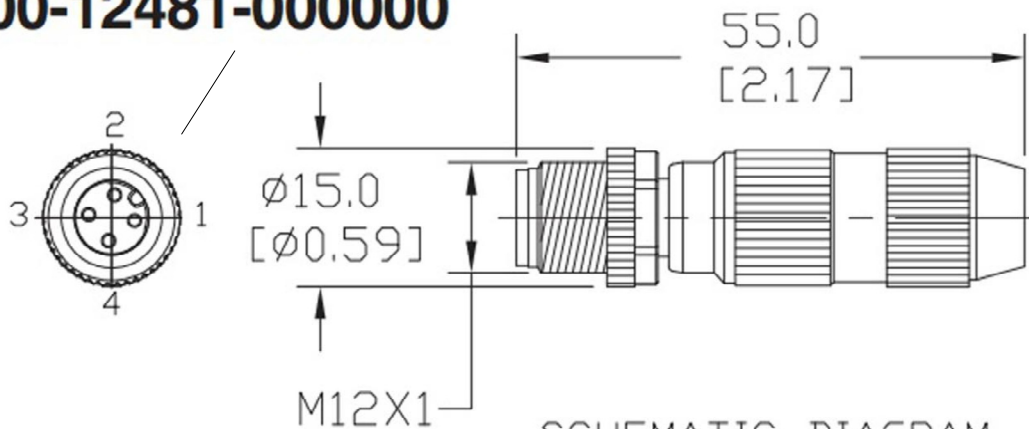
DATE:	10-25-12	ALBION DEVICES DESCR: AD-200 Sensor, 15.7mm stroke
P/N:	900525	
REV.		

View of pins,
Green end



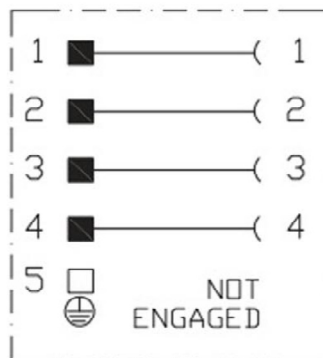
Brown-White = 0 ohms
Blue-Black = 0 ohms
Brown-Black = 109 ohms (approx.)
White-Blue = 109 ohms (approx.)

7000-12481-000000



SCHEMATIC DIAGRAM

CONNECTION FOR:



MALE M12 QUICK
CONNECTION
TECHNIQUE

Internally
connected

approx. 109 ohms
@ room temp