



PT100 EASY-UP

Diameter 6mm, three-wires cable

Temperature measurement by resistance thermometers relies on a feature which is common to all conductors and semiconductors: their electrical resistance is subject to variation with changing temperature. PT100 sensor has a resistance of 100 ohms at 0 °C and the coefficient of variation is 0,00385 ohm each °C. The technology to meet requirements of accurate measurement is based on thin platinum layers on a ceramic substrate (thin-film resistors).

A three-wires system is used to compensate the error arising from resistance of connecting cables combined with resistor of the sensor itself.

Easy-Up PT100 are linked to a numeric code (password) to be entered on selected Pixsys controllers in order to set automatically the main operating parameters (type of sensor, measuring range...).

Ordering codes

2000.90.039	BLI-PT100B-6X50-A304-0000-3 m GSC cable
2000.90.001	BLI-PT100B-6X100-A304-0000-3 m GSC cable
2000.90.153	BLI-PT100B-6X50-A304-0000-3 m TTS cable
2000.90.520	BLI-PT100B-6X80-A304-0000-2 m TTS cable
2000.90.036	BLI-PT100B-6X100-A304-0000-3 m TTS cable
2000.90.521	BLI-PT100B-6X130-A304-0000-2 m TTS cable
2000.90.522	BLI-PT100B-6X230-A304-0000-2 m TTS cable

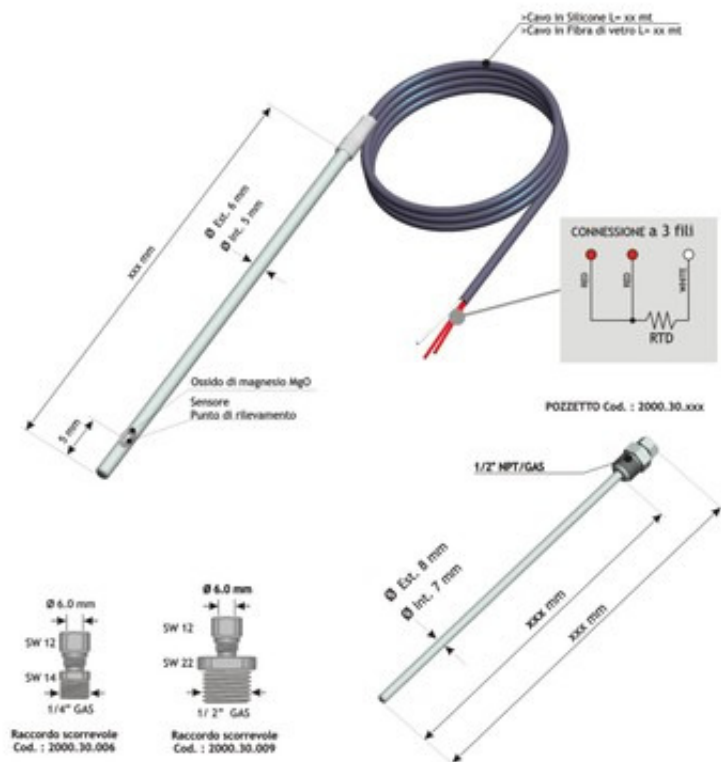
Sliding junction ordering codes

2000.30.003	Sliding junction Ø 6x1/8" GAS
2000.30.006	Sliding junction Ø 6x1/4" GAS
2000.30.027	Sliding junction Ø 6x1/4" NPT
2000.30.009	Sliding junction Ø 6x1/2" GAS

Main features

Stem diameter	6mm
Immersion material	Steel AISI 304
Internal insulation	MgO Magnesium oxide > 20Mohm at 25 °C (500Vdc)
Sensor	PT100 class B (+/- 0,3 °C at 25 °C)
GSC cable	Silicon rubber, operating temperature -40 ... 250 °C
TTS cable	Glass fiber, operating temperature -200 ... 500 °C
Sealing	40mm bend proof spring between cable and stem
Response time	6,5 seconds (normative BS 1904/1984/CEI60751)

Size and installation



_last update 10/07/2015

TRADEMARKS © 2010 PIXSYS Electronics, All rights reserved