

特点

- 氧压范围 2 mbar...3 bar
- 氧化锆 (ZrO_2) 传感元件
- 非耗氧技术
- 内置加热元件
- 无需温度稳定
- 无需参考气体
- 大气中进行功能测试和校正
- 高精度
- 线性输出信号
- 用外部接口板操作



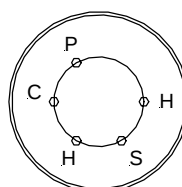
规格

Maximum ratings

加热器支持电压 ¹ 待机	4.35 ±0.1 V _{DC} (1.85 A) 2.0 V _{DC} (0.85 A)
泵阻抗@ 700 °C ²	6 kΩ
允许气体温度 ³ XYA1 all others	-100...400 °C -100...250 °C
气体流速	0...10 m/s
Repetitive permissible acceleration	5 g
Incidental permissible acceleration	30 g

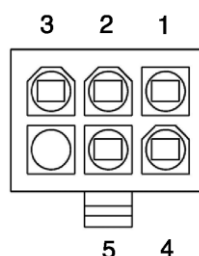
电气连接

不锈钢针脚 (XYA1S)



P: Pump
C: Common
S: Sense
H: Heater

Molex 连接器 (XYA...M)



1: Pump (Red)
2: Common (Black)
3: Heater (Yellow)
4: Sense (Blue)
5: Heater (Yellow)

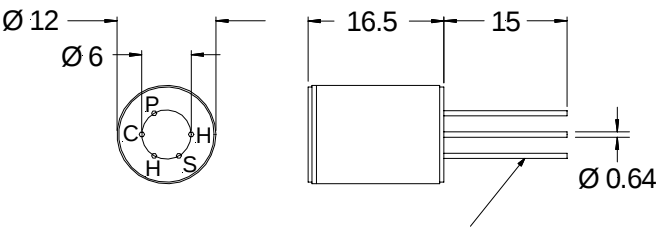
Note:

1. It is important to measure the heater voltage as close to the sensor as possible due to voltage drops in the supply cable.
The heater can also be operated with an equivalent AC or PWM signal.
2. The constant current source used in the pump circuit should be designed to drive a load of up to 6 kΩ.
3. For gas temperatures above 200 °C the heater supply voltage has to be decreased accordingly.

性能特点

Characteristics	最小.	典型.	最大.	单位
氧压范围	2		3000	mbar
精度			5	
内部操作温度		700		°C
待机温度		500		
响应时间 (10 to 90 %)			4	s
预热时间 (从冷态开始)			100	
预热时间 (从待机状态)			20	

外型尺寸 **XYA1S**

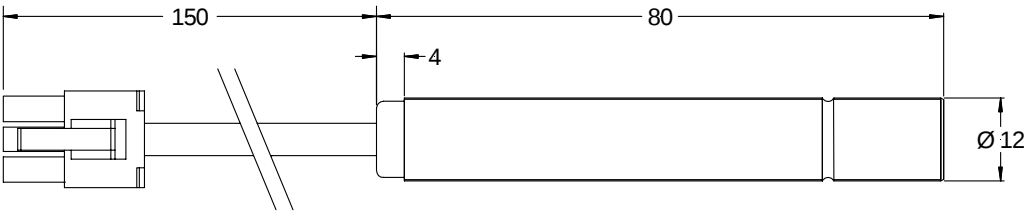


mass: 4 g

Ni-plated stainless steel wires

单位: 毫米

XYA2M



mass: 24 g

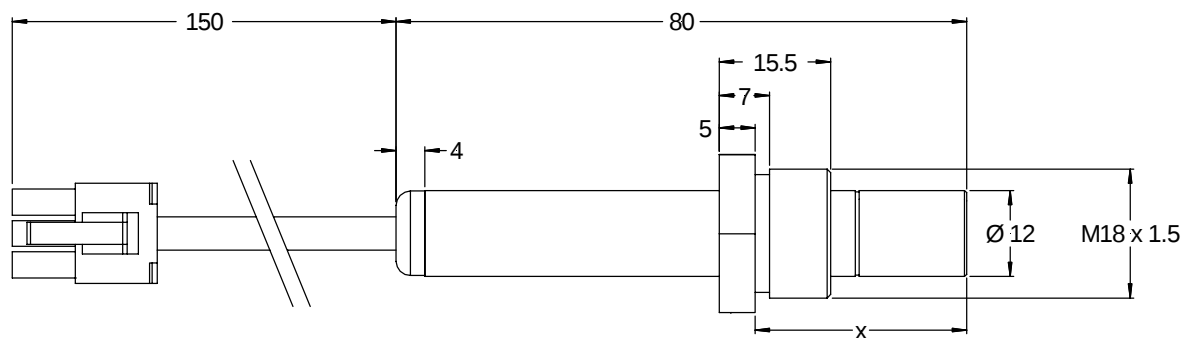
dimensions in mm

XYA Series

Oxygen sensors

外型尺寸

(cont.) XYA5M, XYA6M, XYA7M



mass: 48 g

x = 28 mm for XYA5...
x = 45 mm for XYA6...
x = 55 mm for XYA7... dimensions in mm

订购星系

Options	系列		封装类型	Termination
	XYA			
		1S	cylinder	stainless steel wires
		2M	probe	Molex connector*
		5M	screw fit probe, M18 x 1.5 (28 mm sensor header)	Molex connector*
		6M	screw fit probe, M18 x 1.5 (45 mm sensor header)	Molex connector*
		7M	screw fit probe, M18 x 1.5 (55 mm sensor header)	Molex connector*
				* Molex mating connector: 39-01-2061 (plastic plug) 39-00-0041 (pins)
Example:	XYA	2M		

Note: Custom specific options are available. Please contact First Sensor for further information.

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