FEATURES

- Oxygen pressure range 2 mbar...3 bar
- · Zirconium dioxide (ZrO₂) sensing elements
- Non-consumptive technology
- · Integral heating element
- No need for temperature stabilisation
- No reference gas required
- Function testing and calibration in ambient air
- · High accuracy
- · Linear output signal
- Operates with external interface boards



SPECIFICATIONS

Maximum ratings

Heater supply voltage 4.35 \pm 0.1 V_{DC} (1.85 A) Stand by 2.0 V_{DC}

Pump resistance @ 700 °C

DC $\qquad \qquad \text{typ. 1 k}\Omega \\ \text{AC} \qquad \qquad \text{typ. 1 kHz, 120 }\Omega \\$

Permissable gas temperature

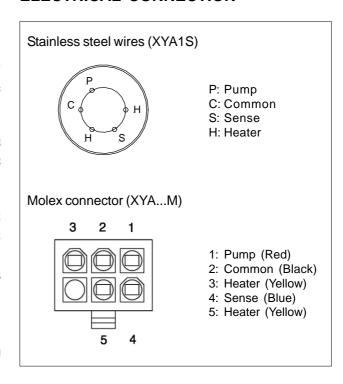
XYA1 -100...400 °C all others -100...250 °C

Gas flow rate 0...20 m/s

Repetitive permissable accelaration 5 g

Incidental permissable accelaration 30 g

ELECTRICAL CONNECTION



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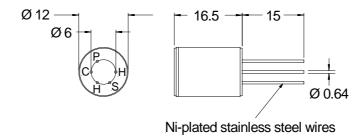


PERFORMANCE CHARACTERISTICS

Characteristics	Min.	Тур.	Max.	Unit
Oxygen pressure range	2		3000	mbar
Accuracy			5	mbar
Operational temperature		700		90
Stand by temperature		500		°C
Response time			4	
Warm up time			100	s
Warm up time (from stand by)			20	

OUTLINE DRAWING

Housing type XYA1S



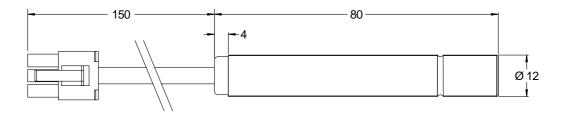
mass: 4 g dimensions in mm

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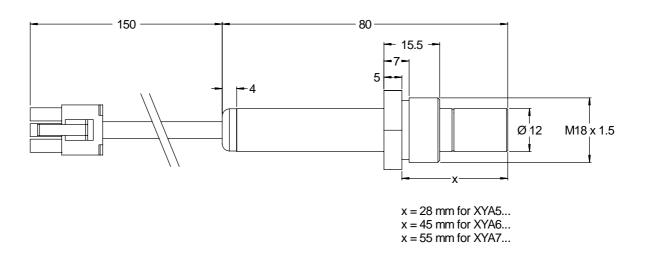
OUTLINE DRAWING (cont.)

Housing type XYA2M



mass: 24 g dimensions in mm

Housing types XYA5M, XYA6M, XYA7M



mass: 48 g dimensions in mm

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ORDERING INFORMATION

	Series			
Series			Housing type	Termination
Options	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 widely available!

Please contact your nearest Sensortechnics sales office for further information.

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