

C5H12 Pentane Sensor

MST-N4L C5H12 Datasheet



Application

- ◆ Environmental detection
- ◆ Gas leakage detection
- ◆ On-line monitoring

Advantages& characteristics

- ◆ Quick response and accurate measurement
- ◆ Will not get poisoned
- ◆ Working with no oxygen required
- ◆ More than 5 years lifespan
- ◆ Small size structure

Base Specification

- ◆ Detection gas C5H12
- ◆ Working principle Non-distributed infrared (NDIR)
- ◆ Measuring range 100%LEL, 0-2%VOL
- ◆ Accuracy $\pm 3\%$ FS
- ◆ Resolution 1%LEL / 0.01%VOL
- ◆ Response time (T90) <30s (Free diffusion)
- ◆ Working temperature $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$
- ◆ Storage temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$
- ◆ Working humidity 0 ~ 95%RH, non-condensing
- ◆ Preheating time 1min
- ◆ Digital output TTL level
- ◆ Analog output 0.4 ~ 2V
- ◆ Supply voltage 3.0 ~ 5.5 VDC
- ◆ Working current Average <60mA @ 3.3VDC
- ◆ Power consumption 0.2W (Average value)
- ◆ Lifespan >5 years
- ◆ Warranty 1 year
- ◆ Weight 21g

Pin specification

Pin mark	Function	Description
V+	Positive electrode of power supply	3.0 - 5.5 VDC
Gnd	Negative terminal of power supply	GND
Tx	Serial port transmitter	TTL TXD
Rx	Serial port receiver	TTL RXD
DA	Analog output	0V means sensor failure 0.2V means sensor in preheating 0.4-2V corresponds to 0-100% F.S. 2-2.2V means overrange

Size drawing (unit: mm)

