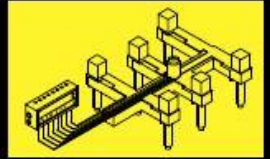


AIRTECT

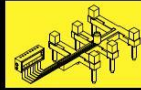


Plastic Leak Alarm System

INSTALLATION GUIDELINES

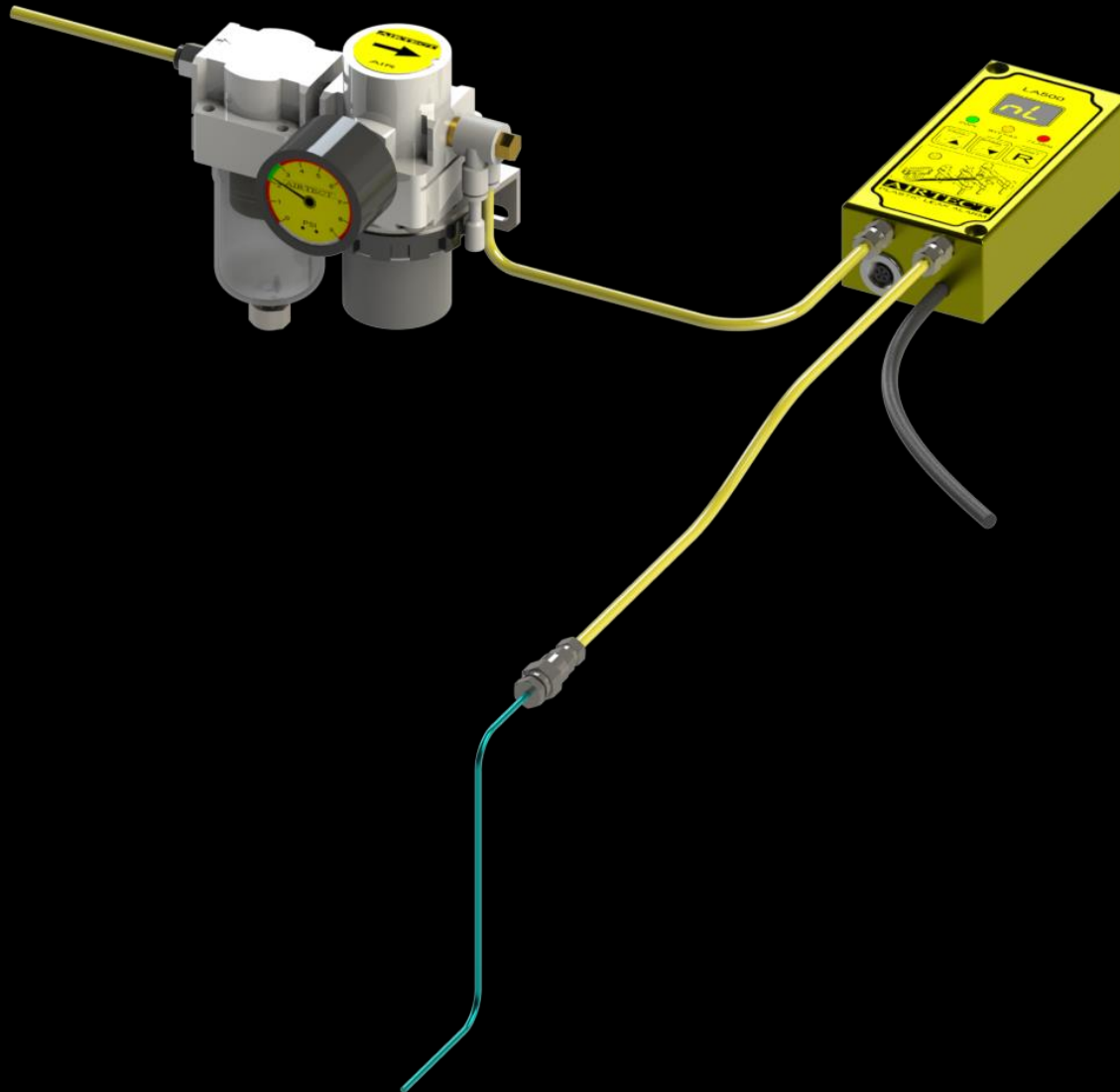
DETECT YOUR NOZZLE AND HOT RUNNER LEAKS EARLY!

AIRTECT



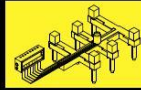
Plastic Leak Alarm System

LA500 INSTALLATION
(for nozzle only leak detection)

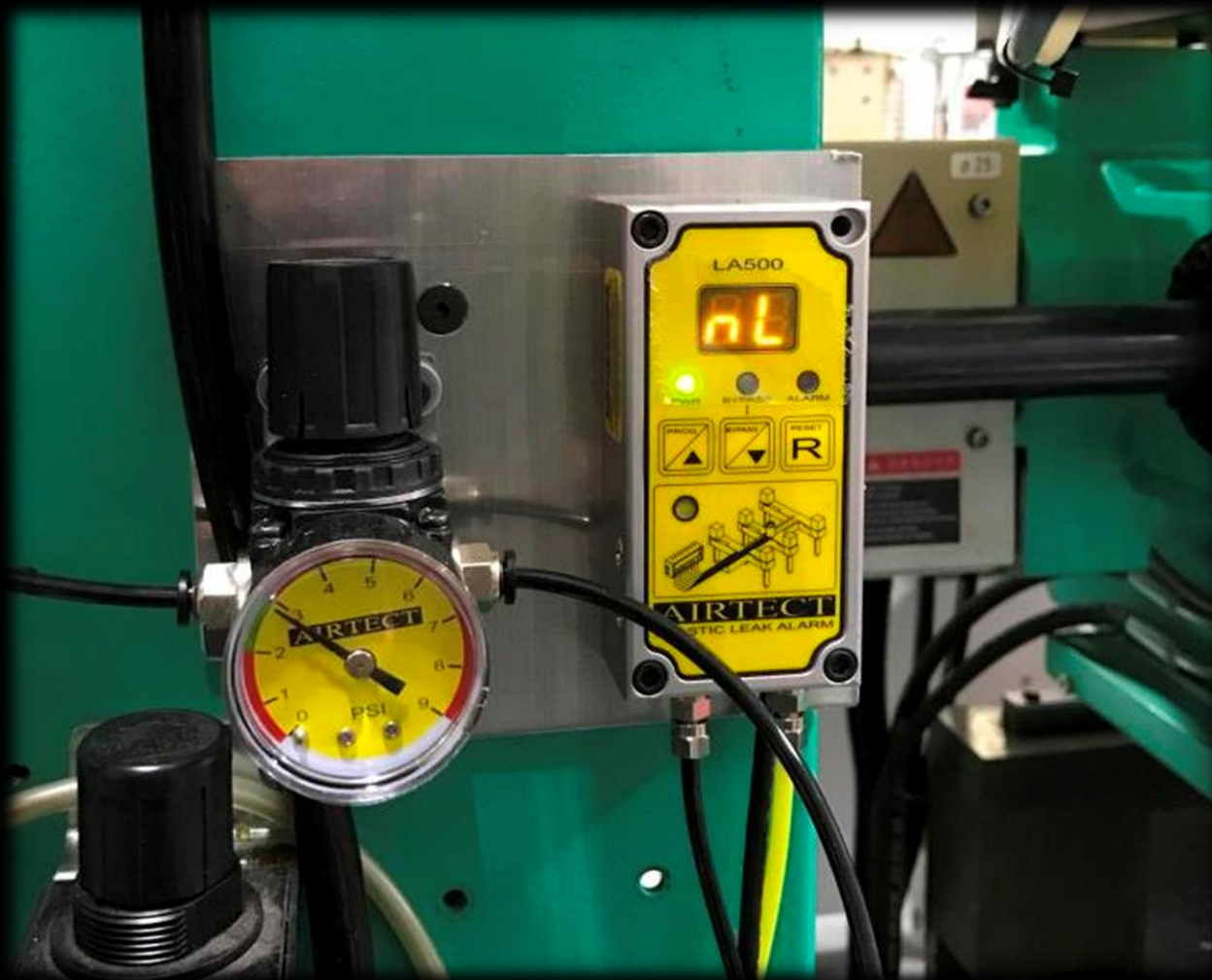


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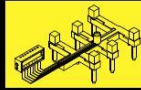
Plastic Leak Alarm System



LA500 PRACTICAL INSTALLATION
(for nozzle only leak detection)

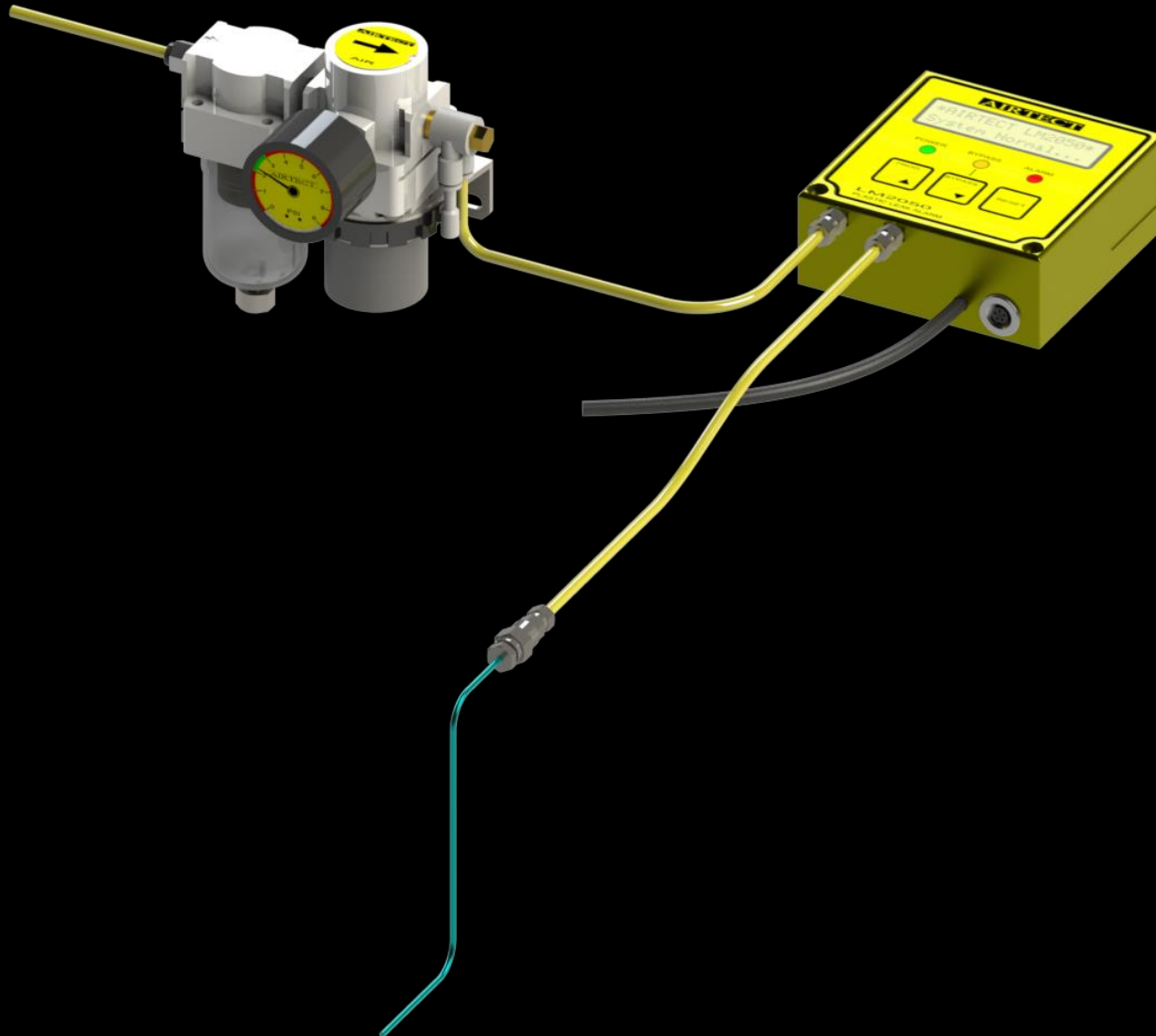


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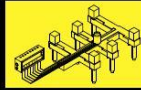
Plastic Leak Alarm System

LM2050 INSTALLATION
(for nozzle only leak detection)

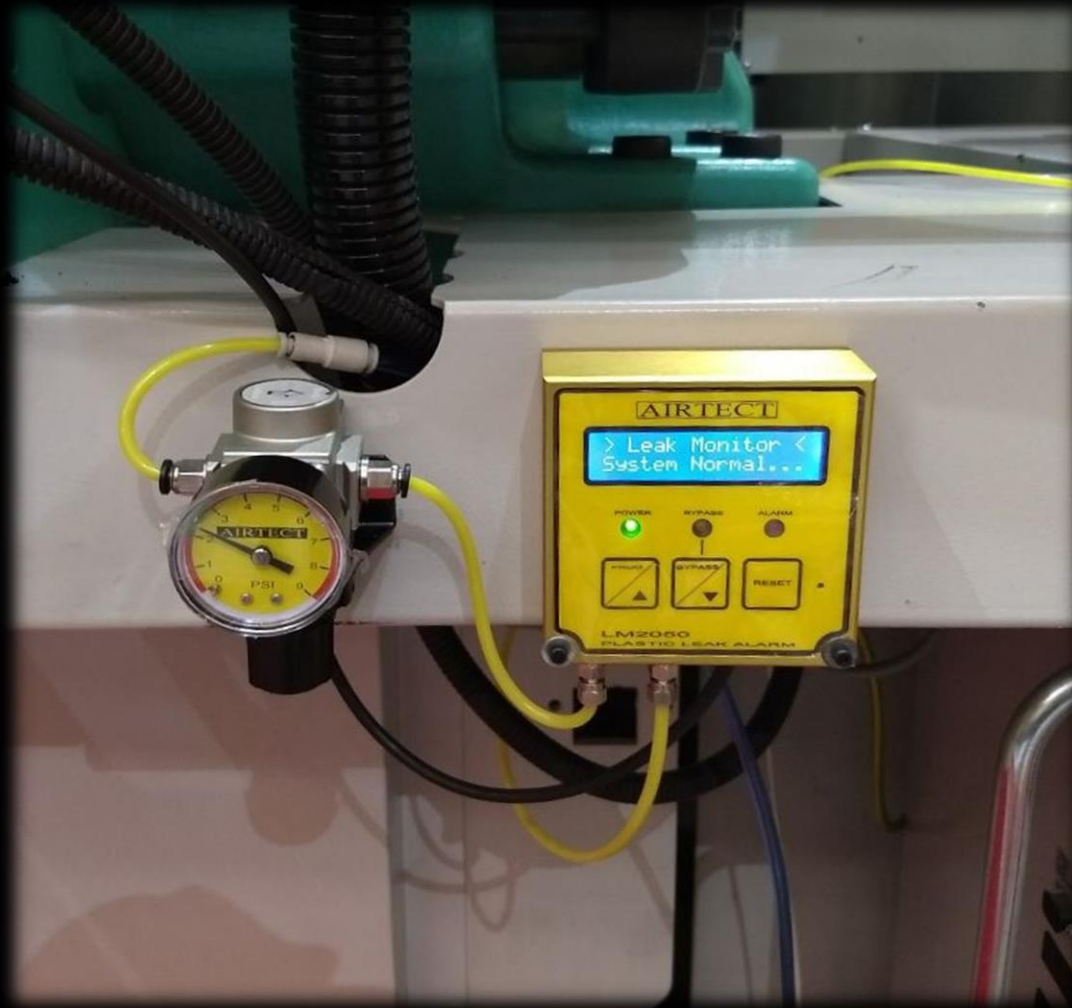


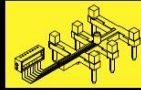
AIRTECT

Plastic Leak Alarm System



LM2050 PRACTICAL INSTALLATION
(for nozzle only leak detection)

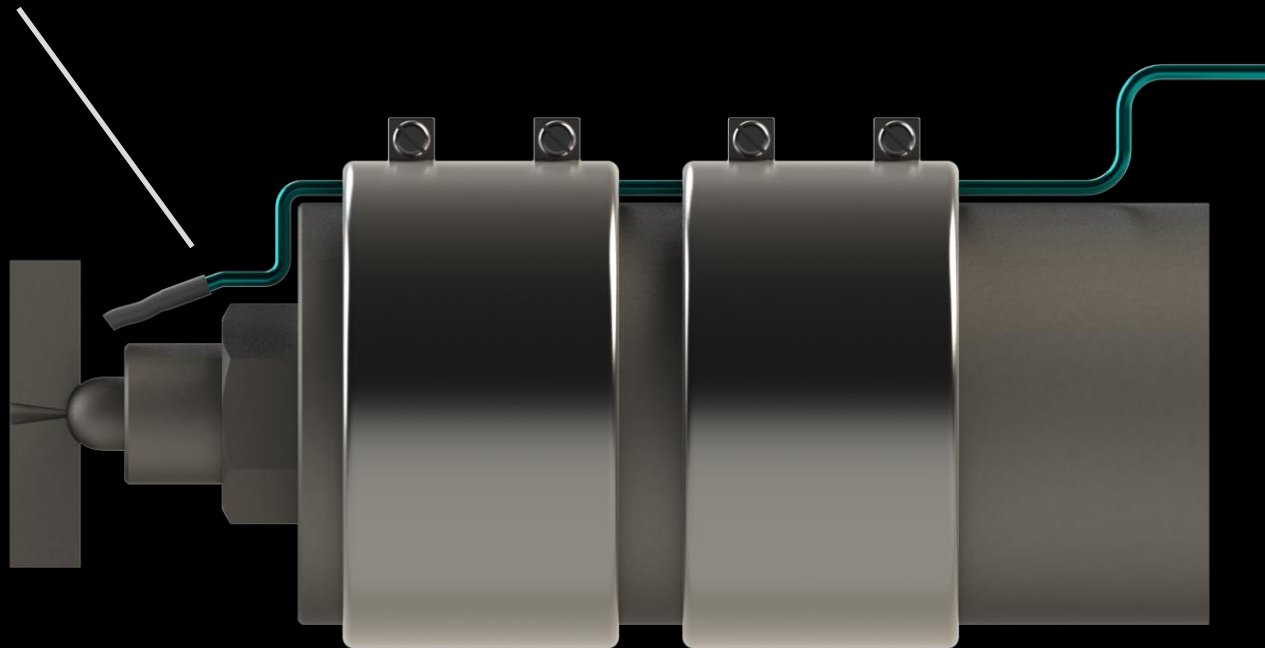
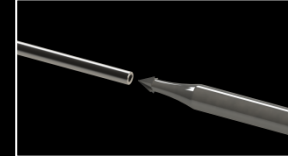
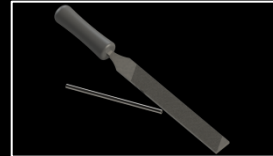
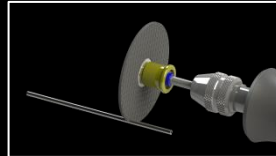


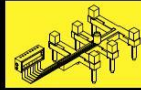


LM2050 and LA500 NOZZLE SENSOR TUBE INSTALLATION

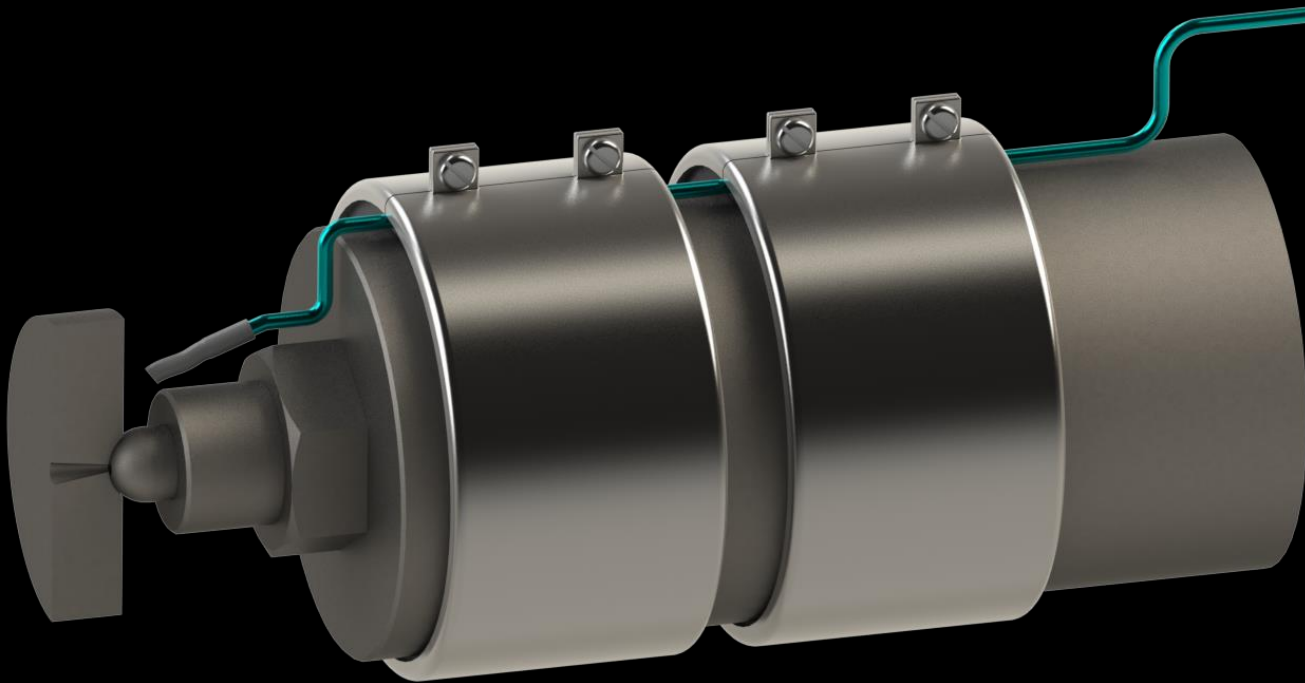
FULL CUTTING RECOMMENDATIONS SHOWN LATER

1. File Sensor Tube Flat
2. Ensure 1mm Clear Hole in Centre
3. Put on Silicone Rubber Sleeve
(leave 15-20mm overhang and keep away from direct contact with heater band or nozzle, max 270°C)
4. Place close to nozzle...customer can decide depending on how soon an indication they need.
5. Fix the Sensor Tube securely!



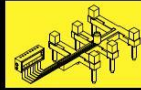


LM2050 and LA500 NOZZLE SENSOR TUBE INSTALLATION



AIRTECT

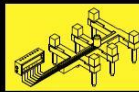
Plastic Leak Alarm System



**LM2050 and LA500 PRECTICAL
SENSOR TUBE INSTALLATION**



AIRTECT



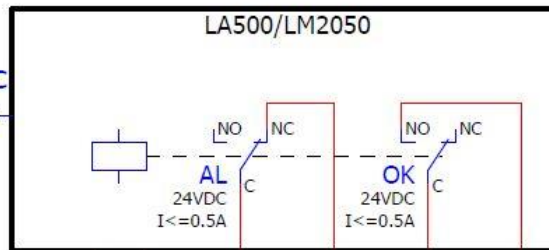
Plastic Leak Alarm System

LM2050 and LA500 ELECTRICAL SCHEMATIC (single nozzle and multi-zone)

LA504/LA508/
LA516

PCC

PCC

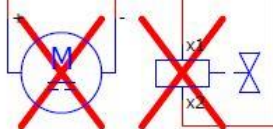
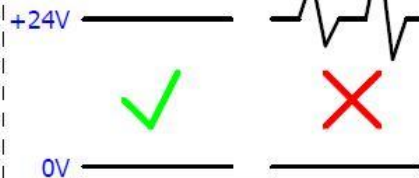
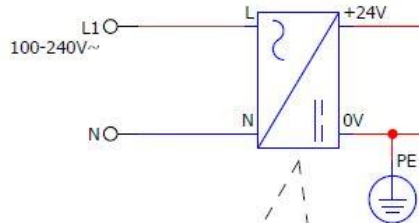


PCC (0.6/1.5/3/5/10m)

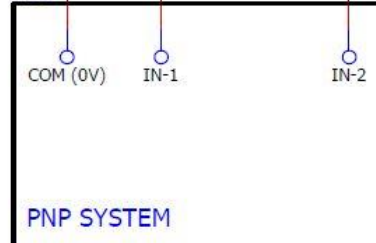
W1
2.00 m
6x0.22mm²

+24V RD
0V BU
1 GN
2 YE
3 BK
4 WH

V1



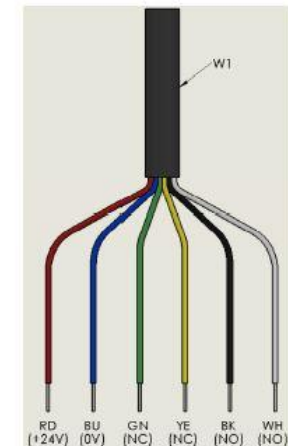
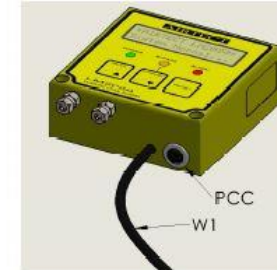
PLC



LA500



LM2050

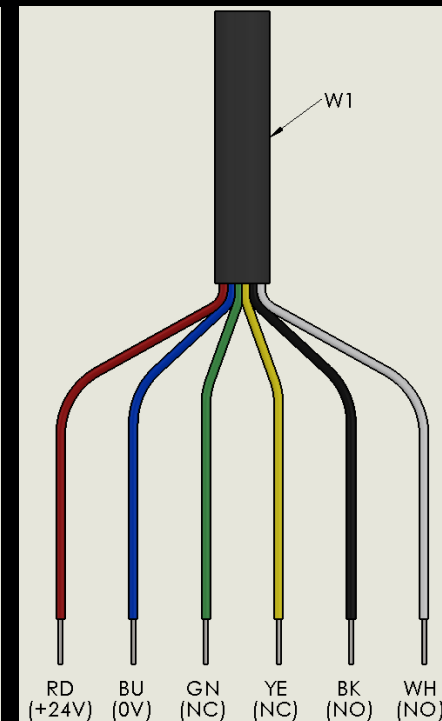
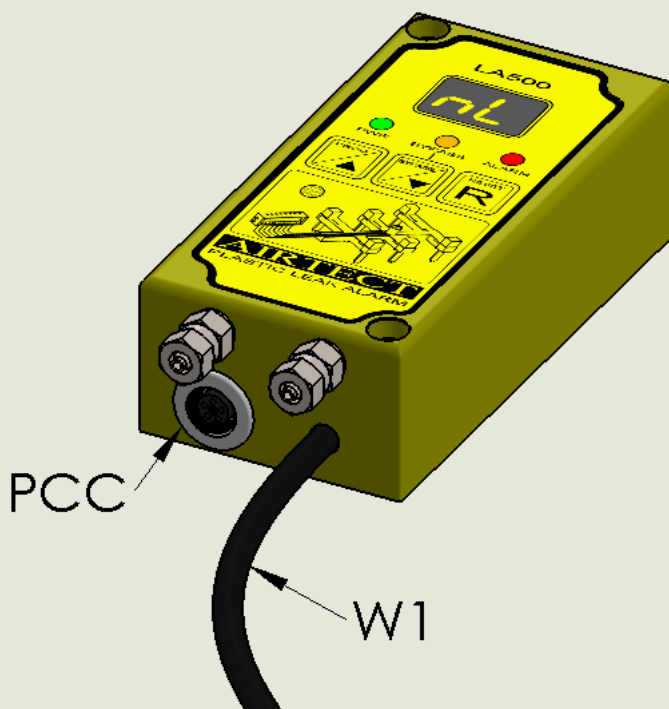
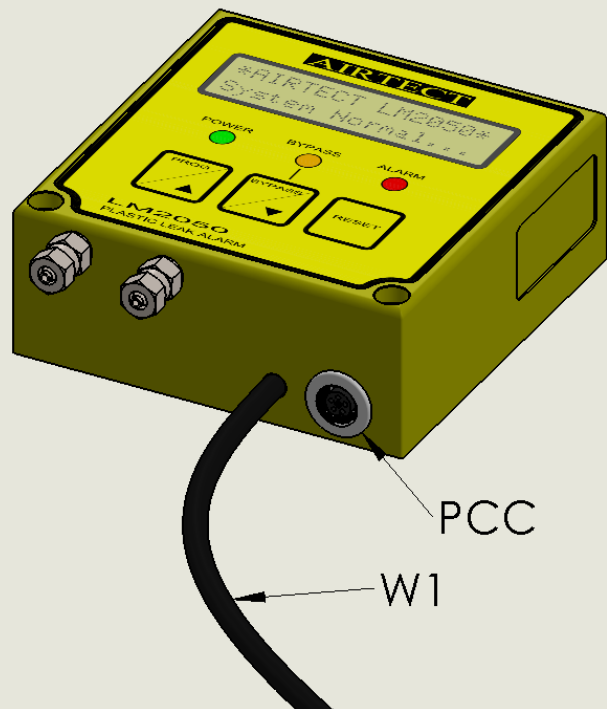


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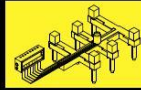


Plastic Leak Alarm System

LM2050 and LA500 ELECTRICAL SCHEMATIC (single nozzle and multi-zone)



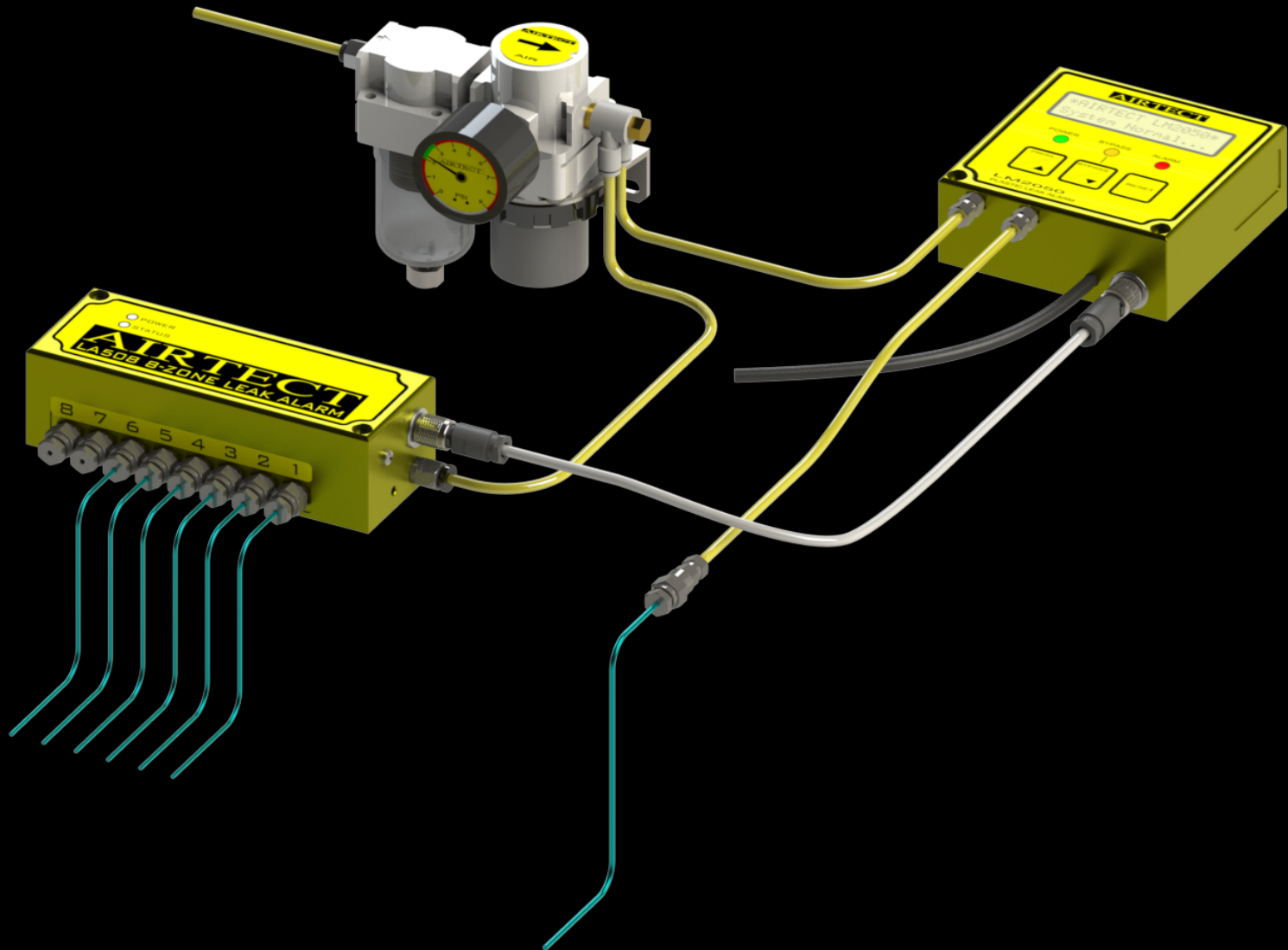
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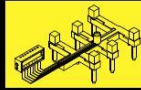
Plastic Leak Alarm System

LM2050 INSTALLATION

(single nozzle and 8-zone leak detection)



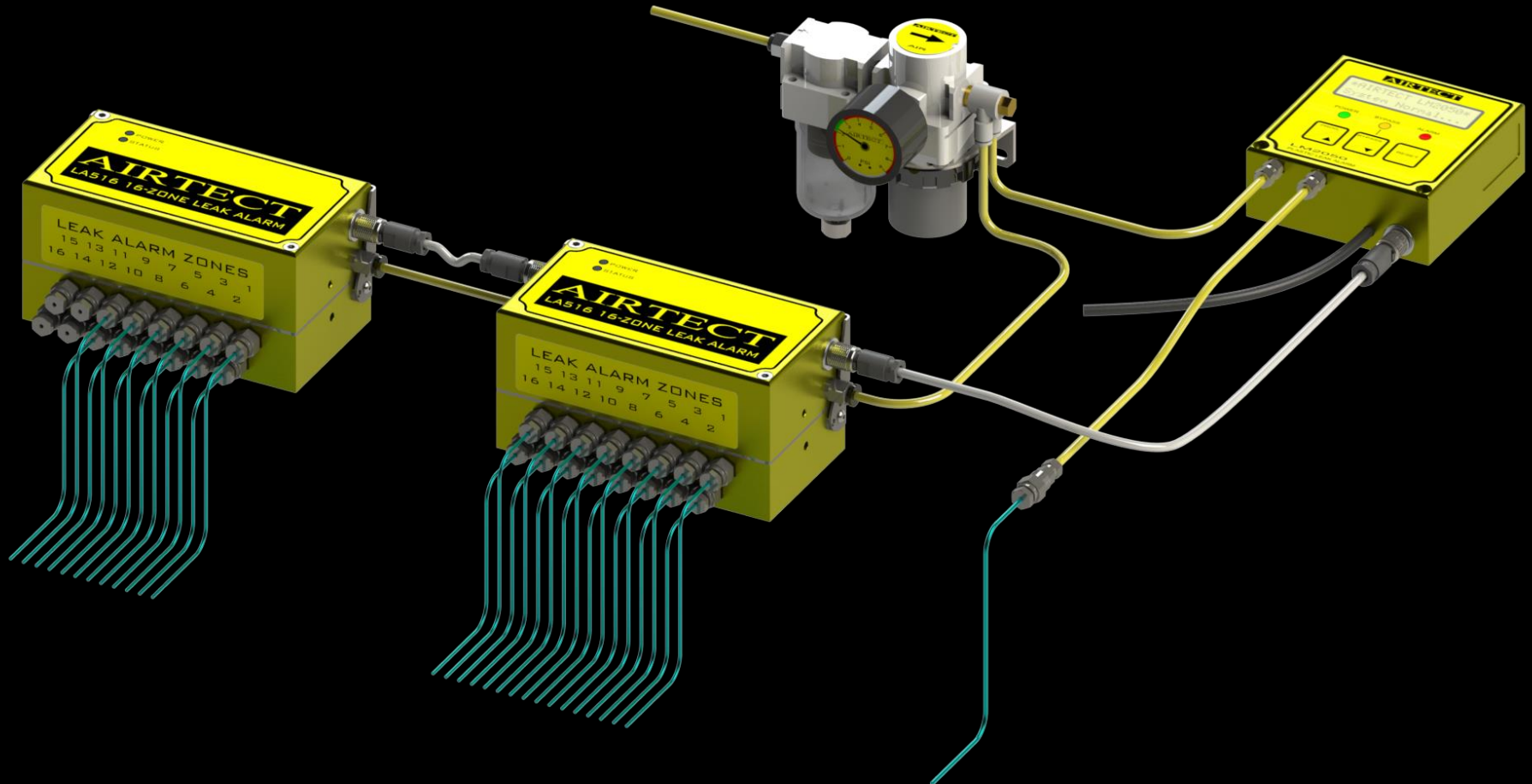
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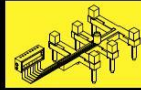
Plastic Leak Alarm System

LM2050 INSTALLATION

(single nozzle and 32-zone leak detection)



AIRTECT

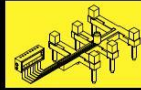


Plastic Leak Alarm System

LM2050 PRACTICAL INSTALLATION
(single nozzle and multi-zone leak detection)



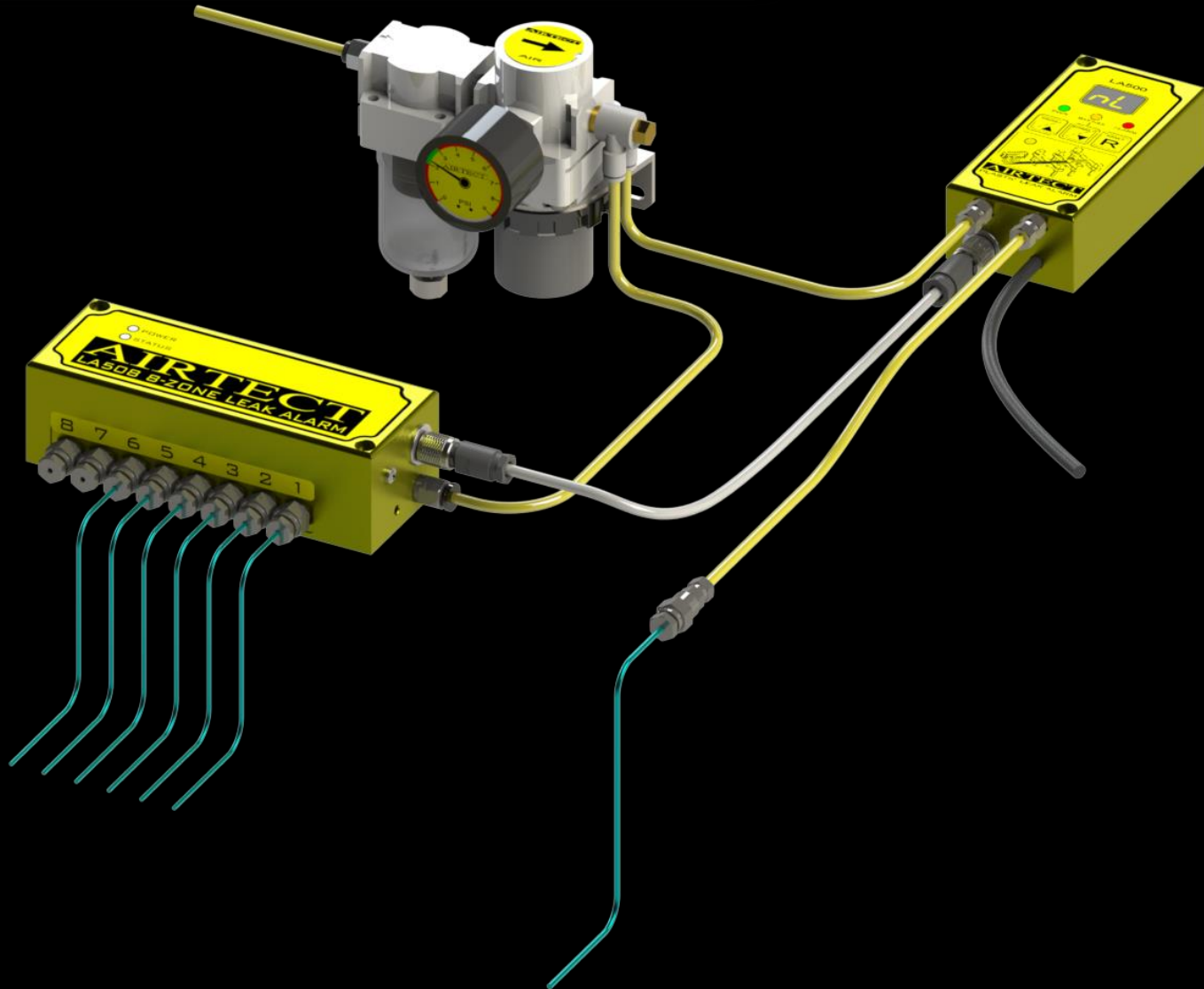
AIRTECT



Plastic Leak Alarm System

LA500 INSTALLATION

(single nozzle and 8-zone leak detection)



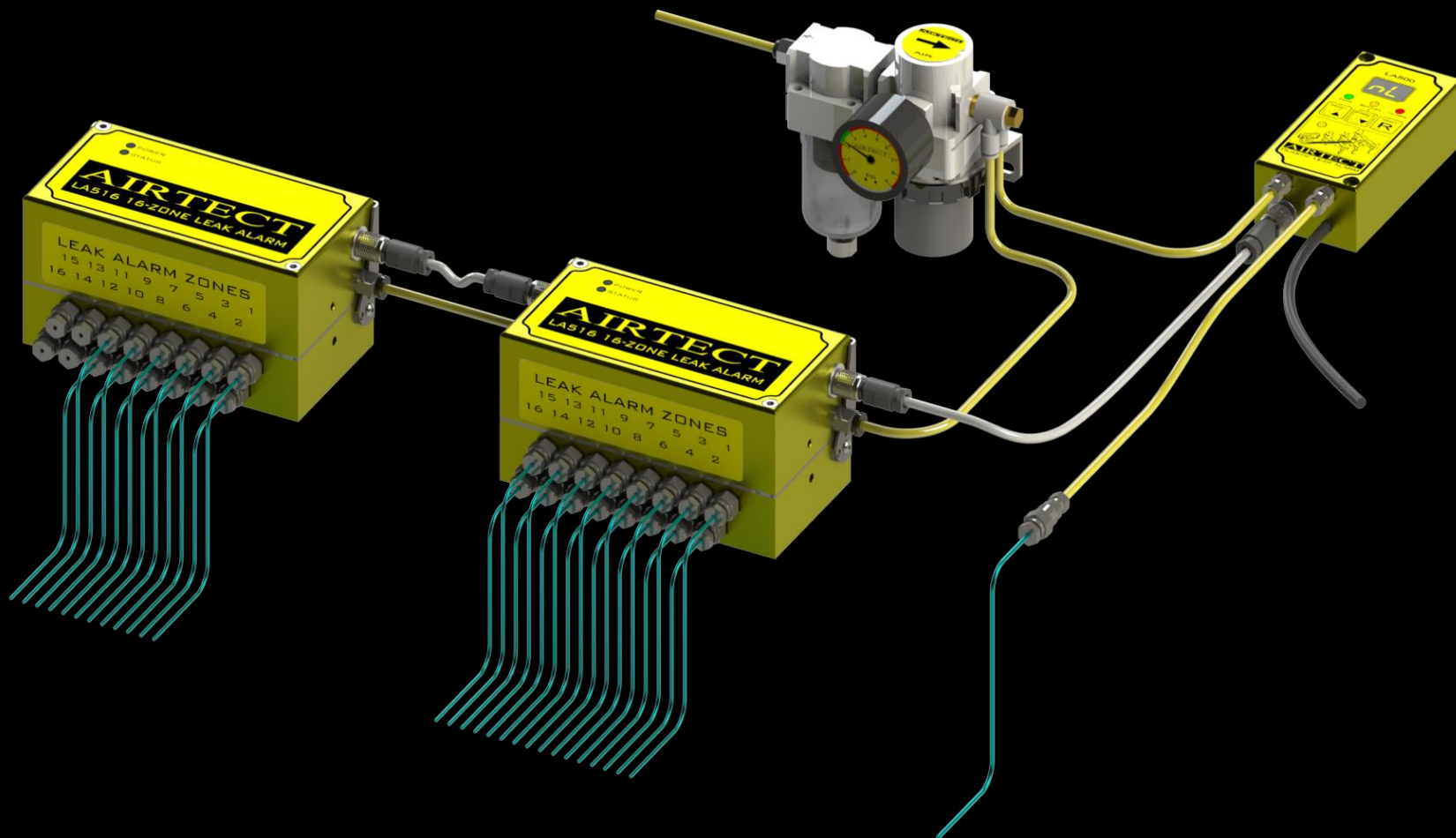
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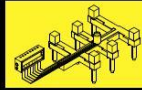


Plastic Leak Alarm System

LA500 INSTALLATION

(single nozzle and 32-zone leak detection)









INSTALLATION GUIDELINES:

1. The DC Power Source must be interference free. This means no Electromagnetic Interference (EMI) caused by solenoids and servomotors etc.
2. The internal interlock relay contacts have a capacity to switch loads of 24Vdc at a maximum current of 0.5A.
3. Ensure neat workmanship and run the wiring and plastic tubing within the machine enclosure where possible.
4. Ensure that both ends of all sensor tubes are cut neatly so as to provide a clear inner sensor tube diameter of 0.8mm (for 1.6mm tube) and 1mm (for 2mm tube).
5. When using expansion manifolds (LA504, LA508 etc) ensure the LA500 or LM2050 has been programmed to accept the manifold/s and that it/they are connected, otherwise a communication alarm will be displayed and vice-versa if the LA500 or LM2050 has not been programmed and a manifold is connected, a communication alarm will be displayed.
6. Electrical power should only be switched on **AFTER** the sensor tube installation is complete and the air supply is energised to allow the 'self teaching' function to work.
7. When using Modular systems, the manifolds must be mounted on the manifold base before applying electrical power as all mould leak sensor installations will be somewhat different.

MANIFOLD LED INDICATIONS

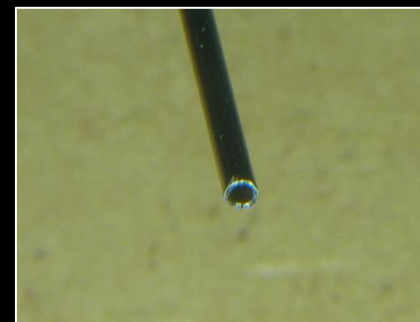
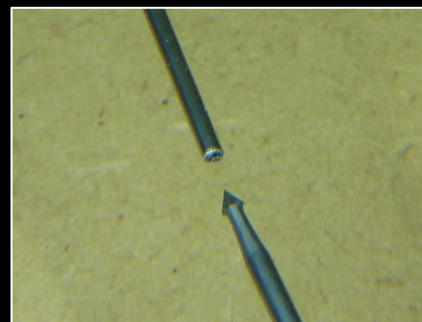
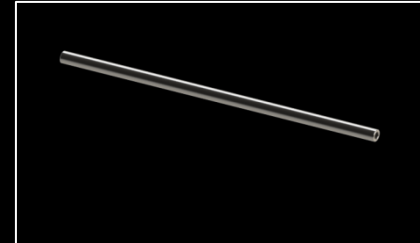
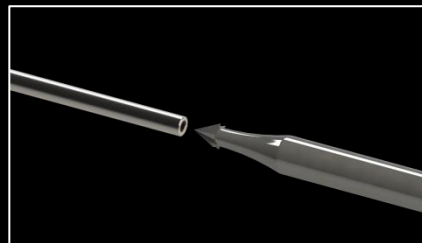
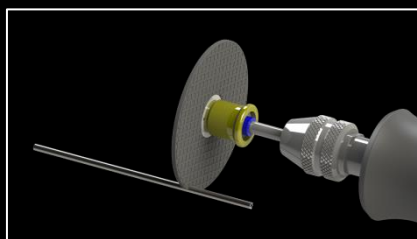
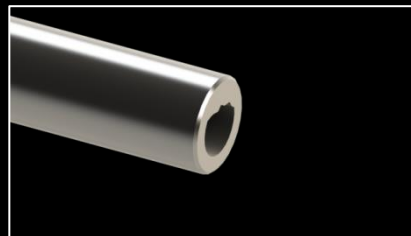
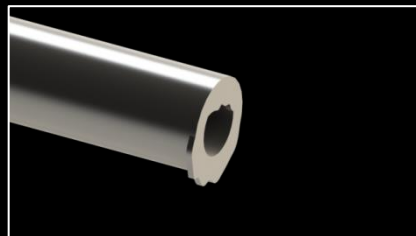
-  POWER LED SHOULD BE CONTINUOUSLY LIT (NORMAL)
-  STATUS LED SHOULD FLASK EVERY 3-4 SECONDS (NORMAL)
-  STATUS LED WILL FLASH QUICKLY FOR COMMUNICATION
'DATA ERROR' WARNING
-  STATUS LED WILL FLASH RED / GREEN QUICKLY FOR
'INTERNAL SENSOR ERROR' WARNING

AIRTECT

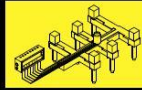


Plastic Leak Alarm System

SENSOR TUBE CUTTING RECOMMENDATIONS

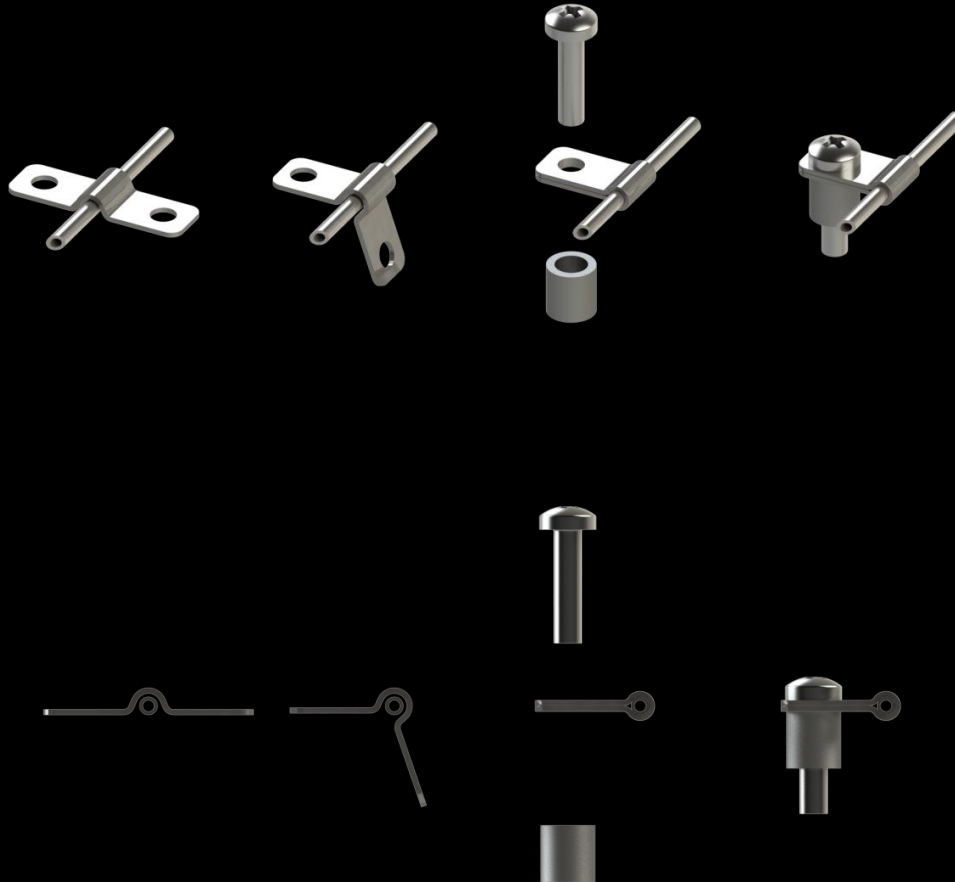


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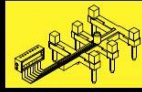


Plastic Leak Alarm System

STAINLESS TUBE BRACKET INSTALLATION

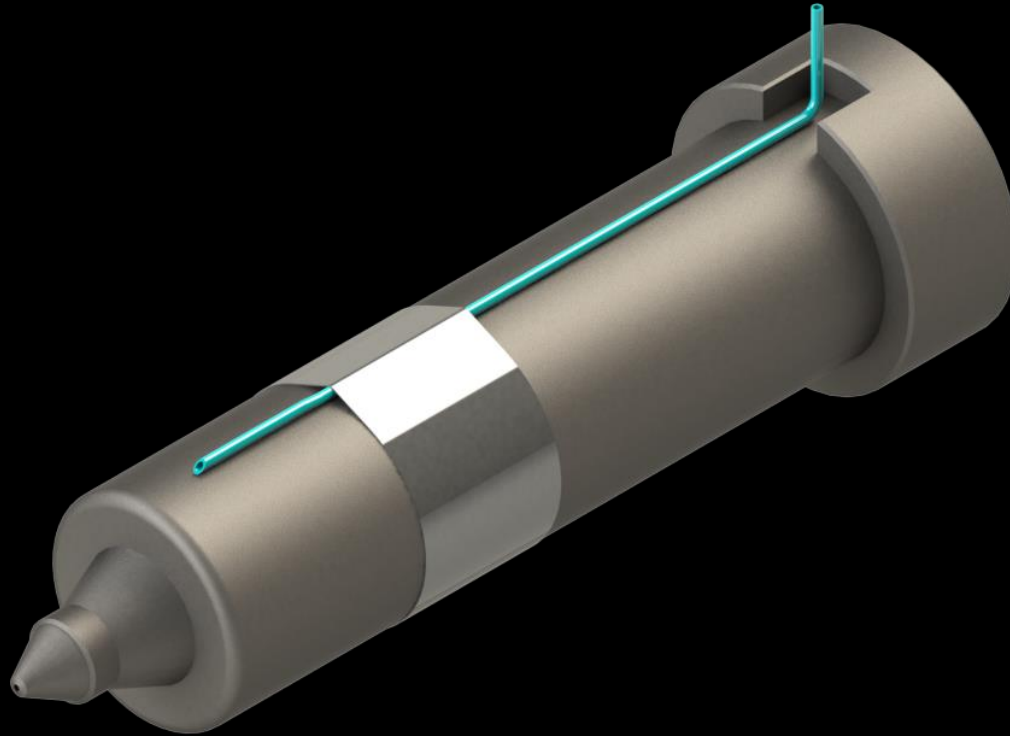


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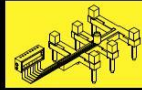


Plastic Leak Alarm System

SENSOR TUBE INSTALLATION RECOMMENDATIONS

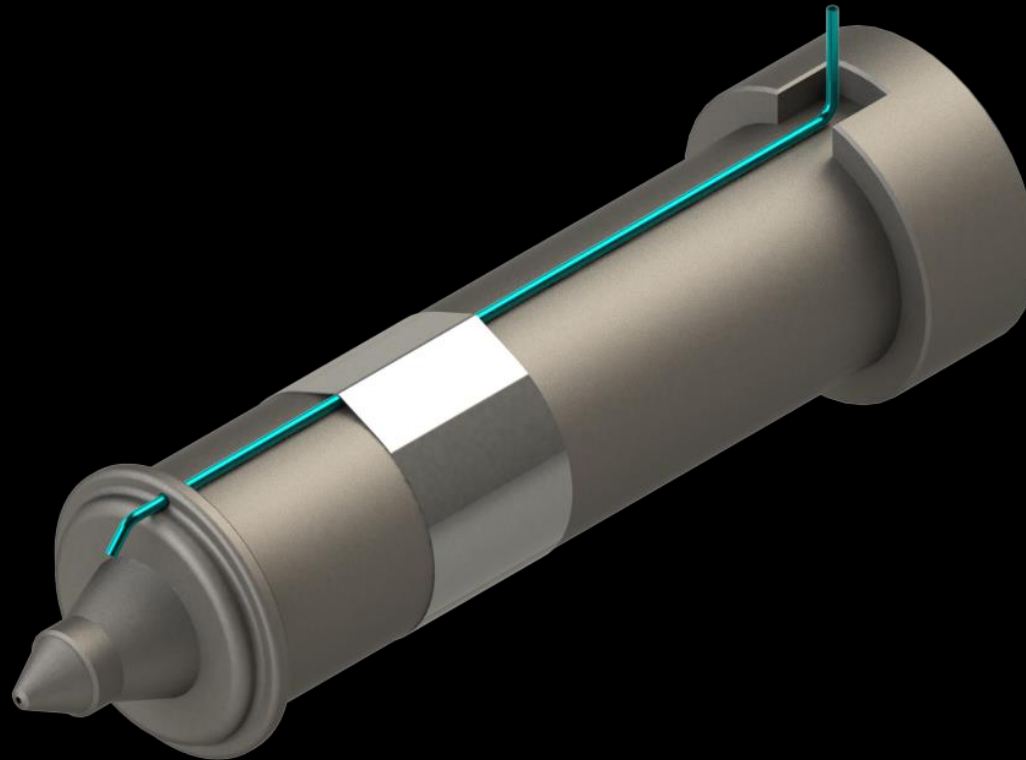


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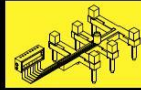


Plastic Leak Alarm System

**SENSOR TUBE INSTALLATION
RECOMMENDATIONS
(NOZZLE WITH RING)**



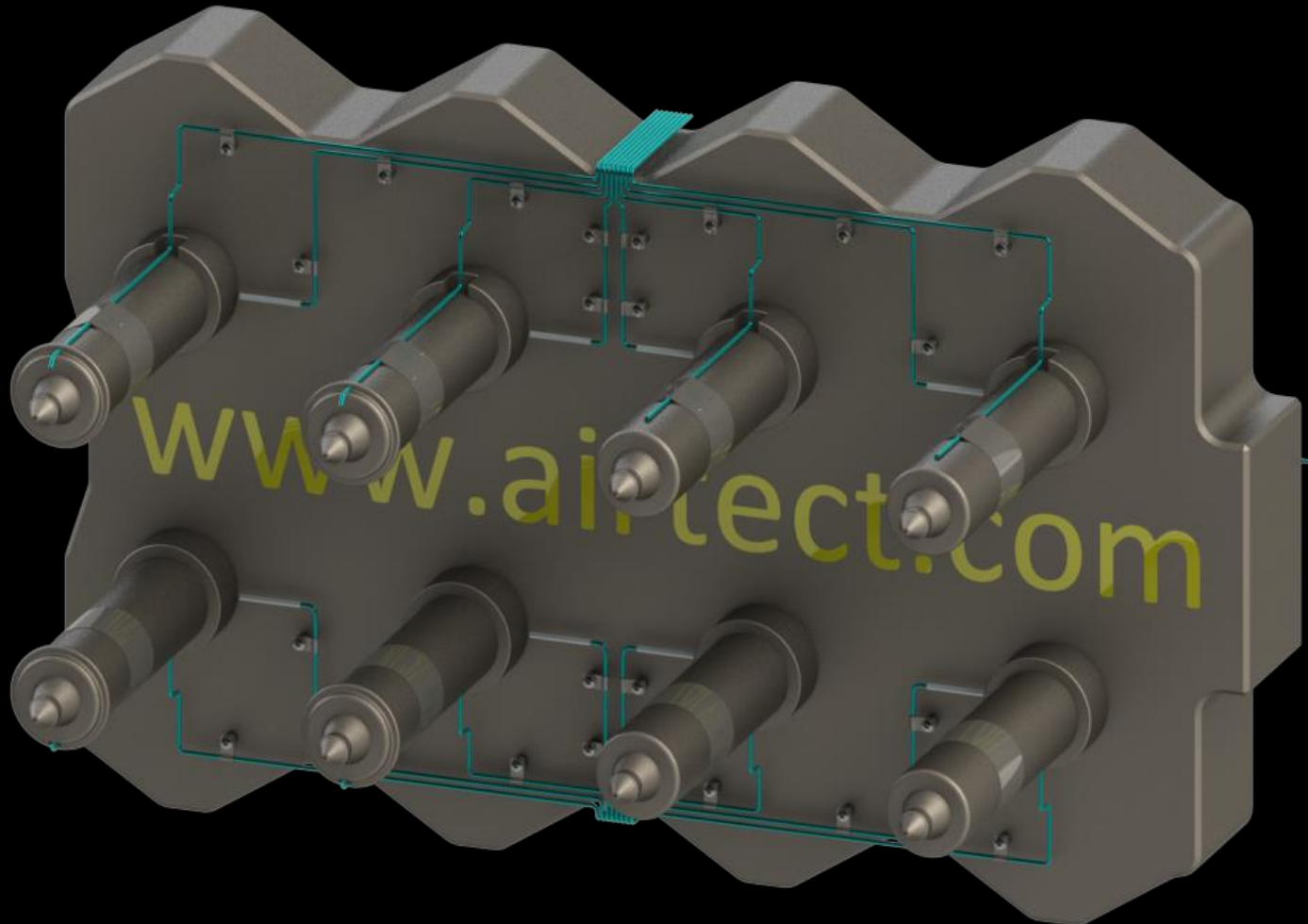
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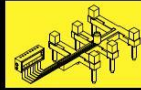
Plastic Leak Alarm System

SENSOR TUBE INSTALLATION RECOMMENDATIONS

**16 ZONE, 8 at NOZZLE TIPS + 8 on
MANIFOLD**

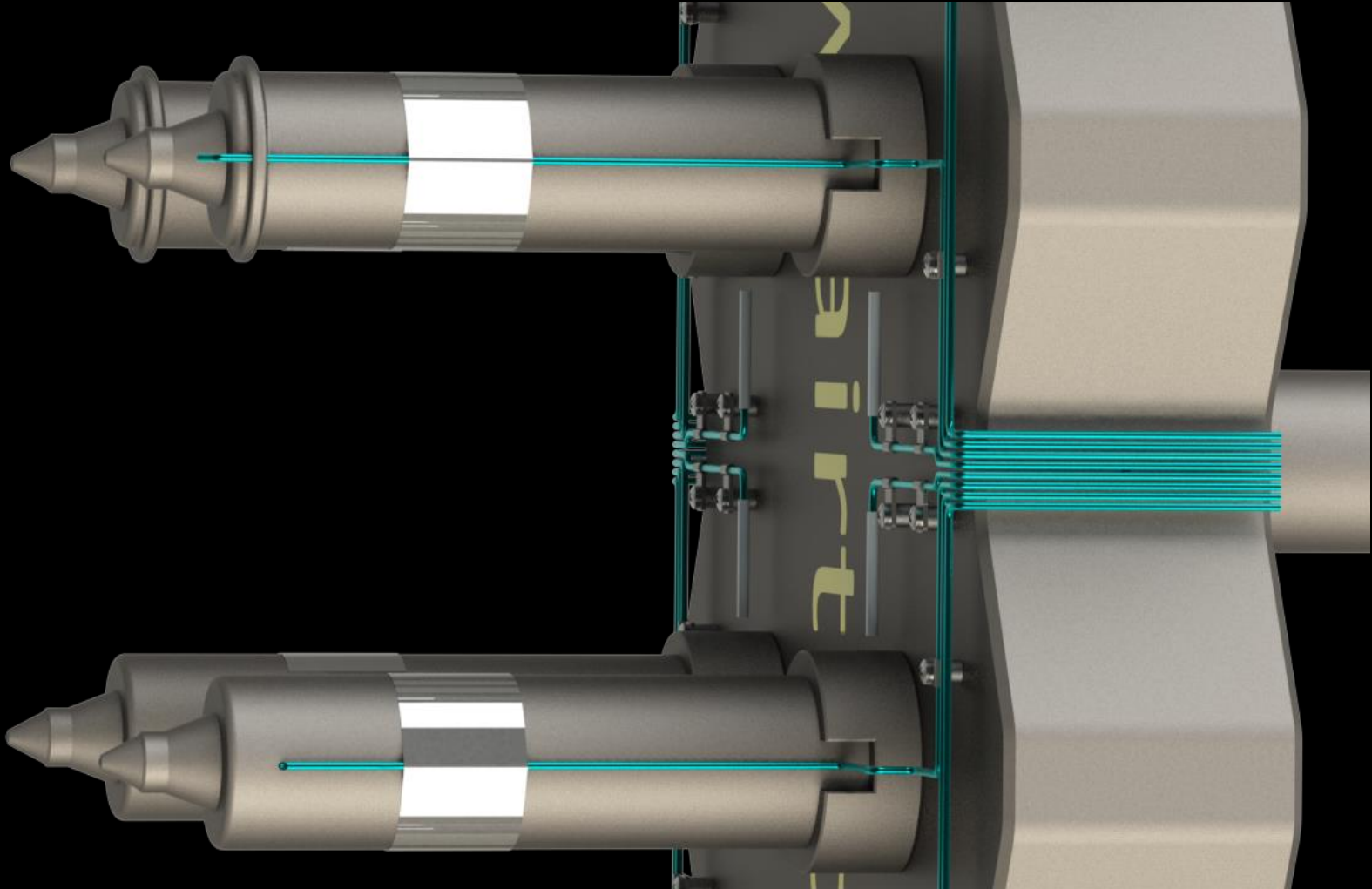


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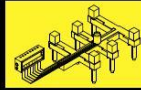


Plastic Leak Alarm System

SENSOR TUBE INSTALLATION RECOMMENDATIONS

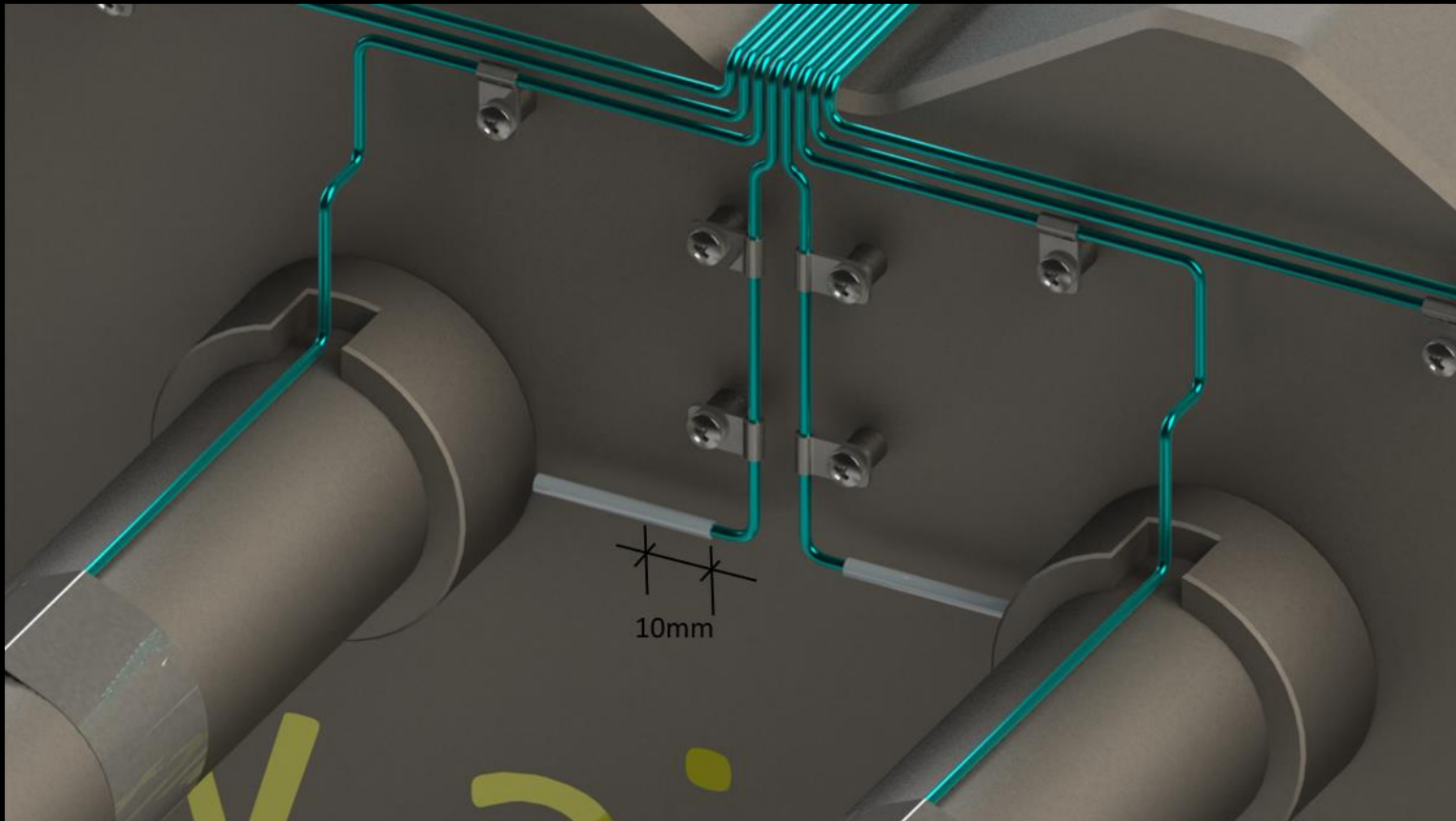


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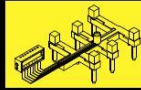


Plastic Leak Alarm System

SILICONE TUBE INSTALLATION RECOMMENDATIONS

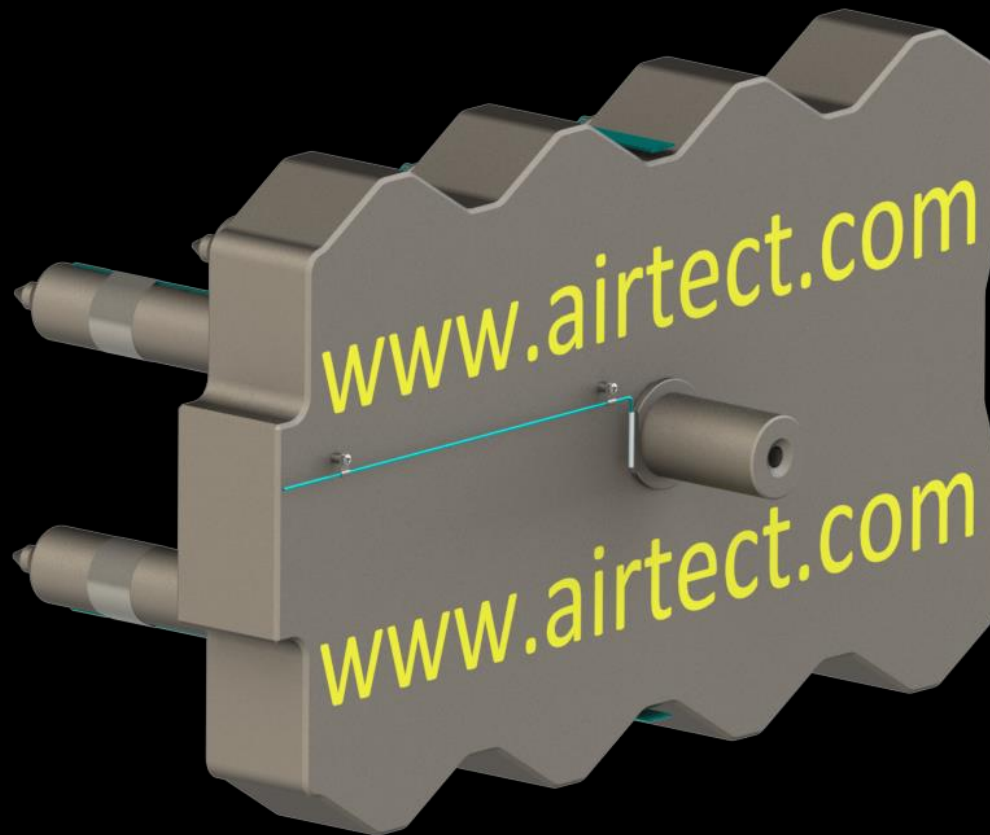


AIRTECT



Plastic Leak Alarm System

**SENSOR TUBE INSTALLATION
RECOMMENDATIONS**





Plastic Leak Alarm System

**DETECT YOUR NOZZLE AND HOT
RUNNER LEAKS EARLY!! ☺**

**MULTI-ZONE LEAK DETECTION SYSTEMS ARE AVAILABLE WITH OR
WITHOUT PROGRAMMABLE CONTROL**

PROGRAMMABLE CONTROL ADVANTAGES (USING LA500 or LM2050)

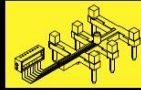
- **PROGRAMMABLE FUNCTIONS INCLUDE LEAK REPORTING AND INTERLOCK RELAY DELAY TIMERS, MANIFOLD TEMPERATURE ETC**
- **MULTIPLE MANIFOLD CONNECTION SYSTEMS (DAISY CHAIN).**
- **PROVIDE LEAK DETECTION AT MAIN INJECTION NOZZLE**

NON-PROGRAMMABLE CONTROL ADVANTAGES (STAND-ALONE MANIFOLDS)

- **LOW COST ALTERNATIVE**
- **LEAK LOCATION DISPLAYED ON MANIFOLD**
- **FIXED 10 SECOND INTERLOCK RELAY DELAY TIMER**
- **AVAILABLE IN FIXED OR MODULAR UNITS, SAME AS ABOVE.**
- **AUTO-RESET OF ALARMS**
- **SAME ELECTRICAL CONNECTIONS AS LA500/LM2050**
- **NO PCC CABLES**

NOTE: THESE UNITS CANNOT BE EXPANDED (DAISY CHAINED)

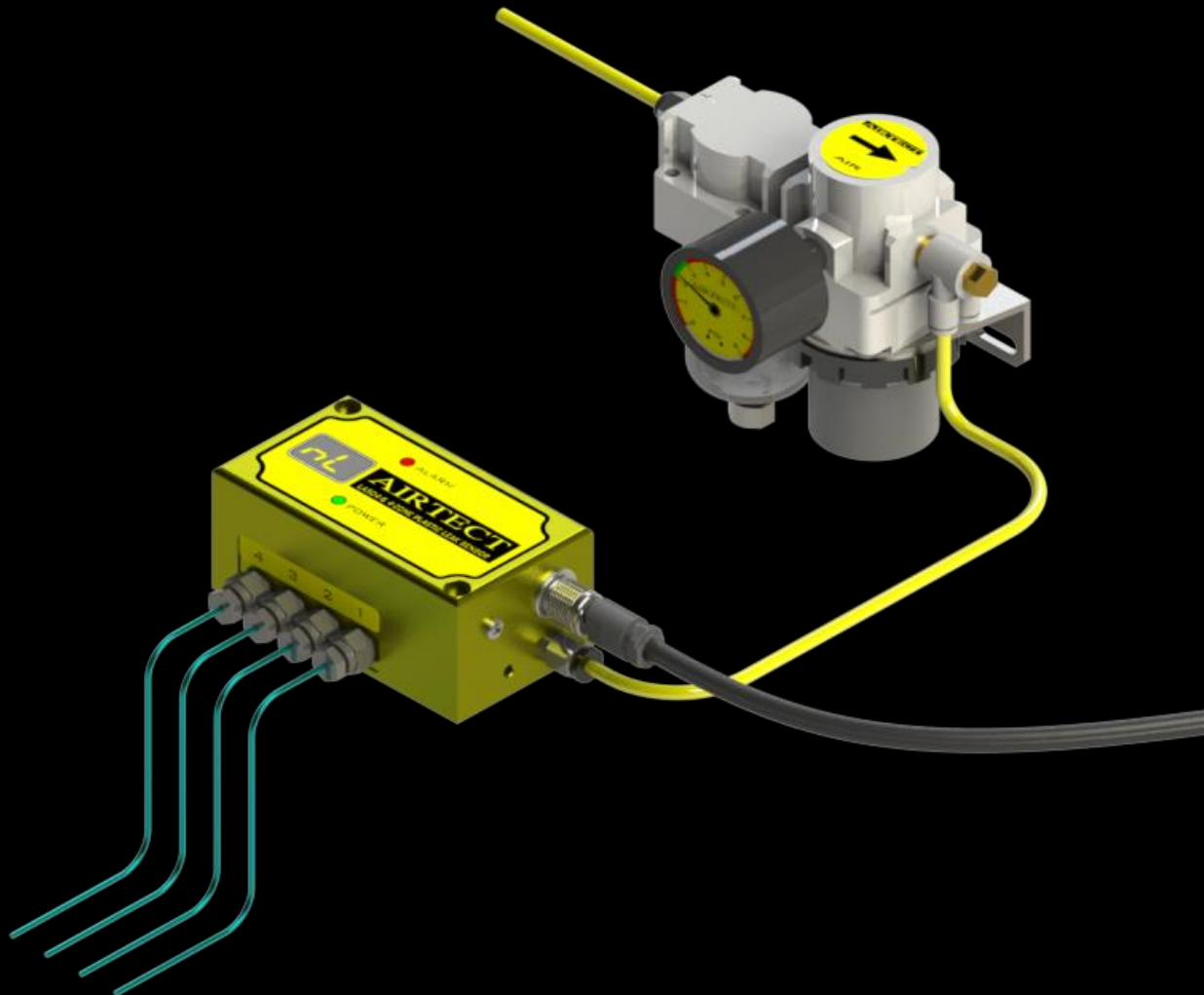
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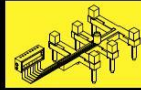
Plastic Leak Alarm System

**DETECT YOUR NOZZLE AND HOT
RUNNER LEAKS EARLY!! ☺**

LA504S 4-ZONE 'STAND-ALONE' EXAMPLE



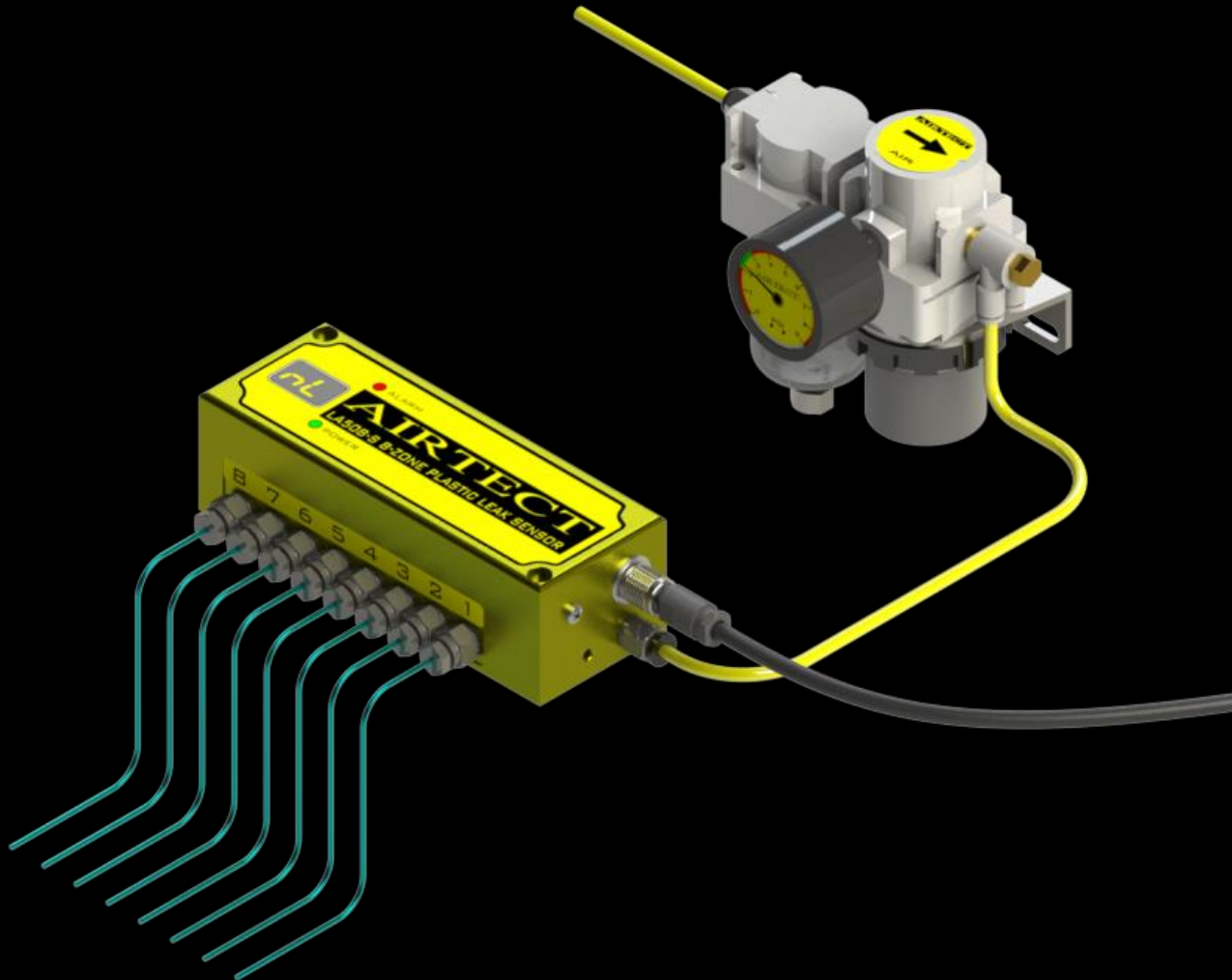
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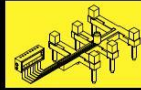
Plastic Leak Alarm System

**DETECT YOUR NOZZLE AND HOT
RUNNER LEAKS EARLY!! ☺**

LA508S 8-ZONE 'STAND-ALONE' EXAMPLE



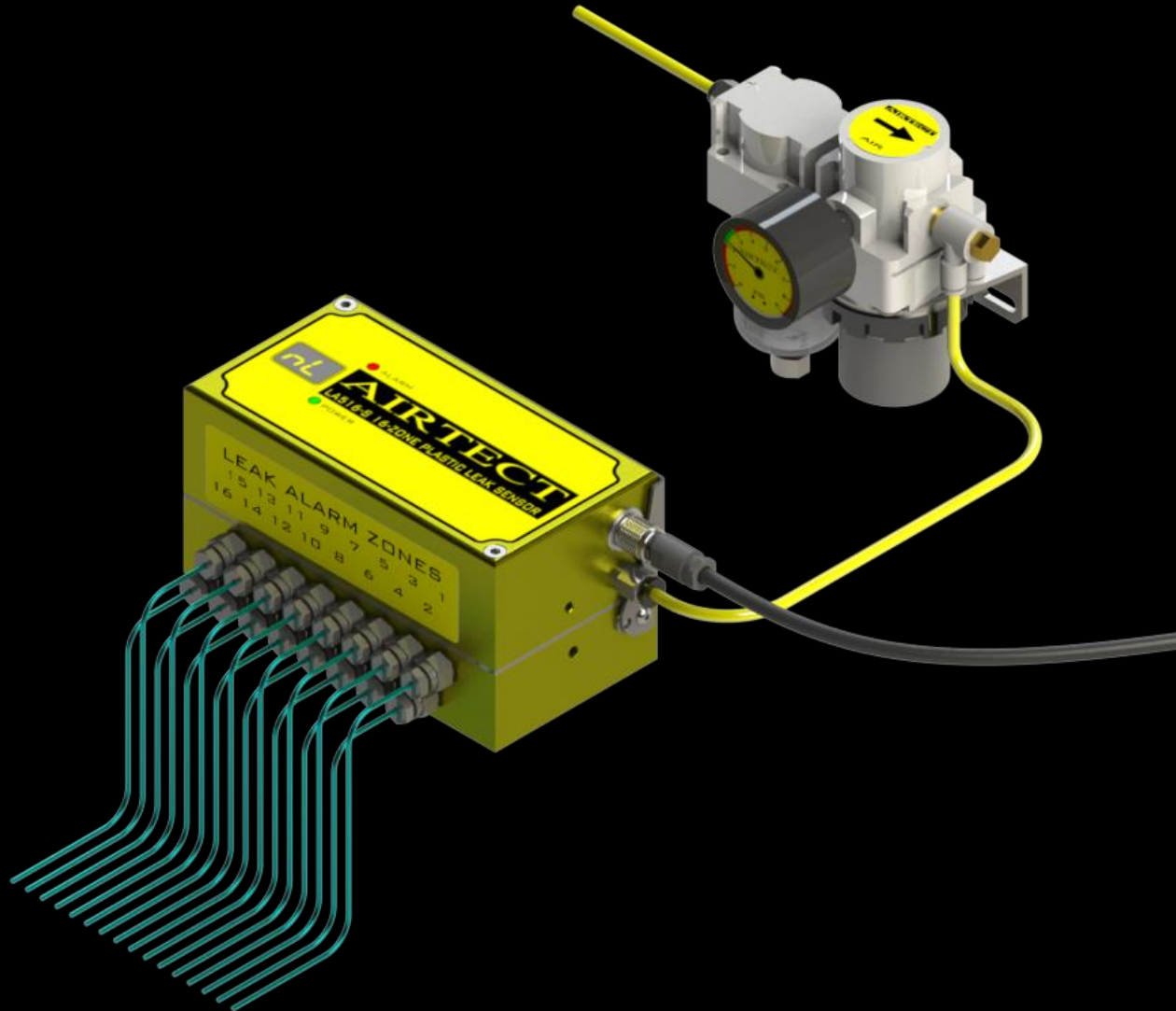
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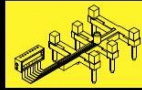


Plastic Leak Alarm System

**DETECT YOUR NOZZLE AND HOT
RUNNER LEAKS EARLY!! ☺**

LA516S-M-S 16-ZONE 'STAND-ALONE' EXAMPLE





FREQUENTLY ASKED QUESTIONS

- **Q: How much compressed air is used?**

A: 0.05 Litres per minute per sensor of compressed air at 2PSI.

- **Q: What is the difference between the LA500 and LM2050.**

A: There is no functional difference. Only the Clear Text LCD display with multiple language options.

- **Q: How much DC power is required?**

A: 24Vdc @ 150mA average for LM2050 + LA508. Please note the DC power Source must be free from Electromagnetic Interference (EMI), caused by many devices such a solenoid valves, servo motors etc working on the sale DC power line. Good electrical practice will eliminate all potential problems.

- **Q: How long can the stainless steel sensor tubes be?**

A: The design is for a maximum of about 5 meters.

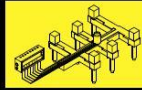
- **Q: What is the minimum bend radius for the stainless steel tubes without affecting air flow?**

A: R1.6mm for the 1.6mm diameter tube and R2 for the 2mm diameter tube.

- **Q: Where is the Silicone Rubber tube used?**

A: At the end of the stainless steel sensor tube at the main injection nozzle. It is also used within a Hot Runner mould where the temperature is less than 270°C.

AIRTECT



Plastic Leak Alarm System

**DETECT YOUR NOZZLE AND HOT
RUNNER LEAKS EARLY!! ☺**

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