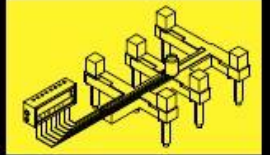


AIRTECT



Plastic Leak Alarm System

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



Nickerson Europe. 24 Brunel Road, Corby, NN17 4JW. 01536 206653. sales@nickersoneurope.co.uk

DESIGNED AND MANUFACTURED BY KENEX



WHAT IS AIRTECT?

THE AIRTECT PLASTIC LEAK ALARM SYSTEM IS A UNIQUE DEVICE WHICH ASSISTS IN PREVENTING DAMAGE CAUSED BY LEAKING MOLTEN PLASTIC MATERIAL AT THE MAIN INJECTION NOZZLE OF INJECTION MOULDING MACHINES AND ALSO WITHIN HOT RUNNER MOULDS.

IT IS BEING USED WORLDWIDE BY MANY WELL KNOWN COMPANIES SUCH AS IAC, VALEO, MAGNA, BD, HELLA, POLYPIPE... TO NAME BUT A FEW.

AIRTECT PRODUCTS ARE REPRESENTED WORLDWIDE



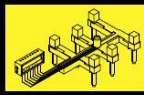
WHY USE AIRTECT?

Because of an industry wide problem.....Leaks of molten Plastic Material at the Main Injection Nozzle and within Hot Runner Moulds:

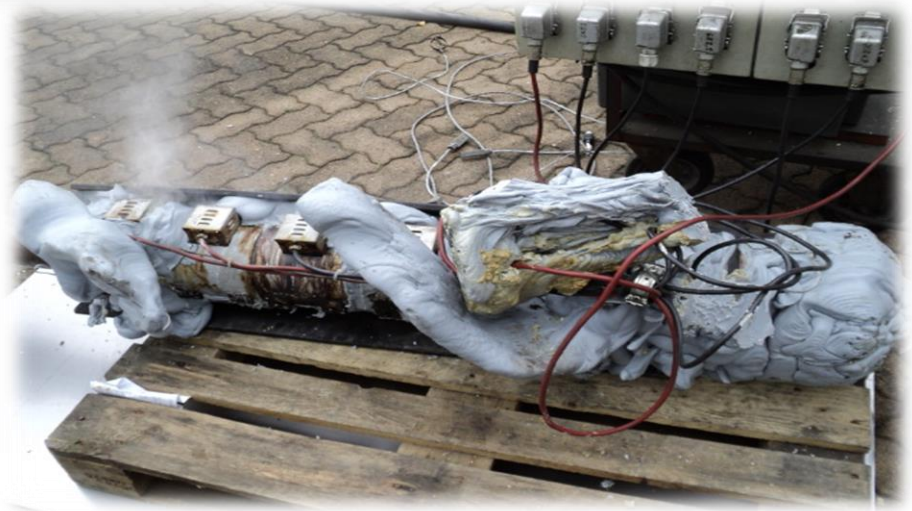
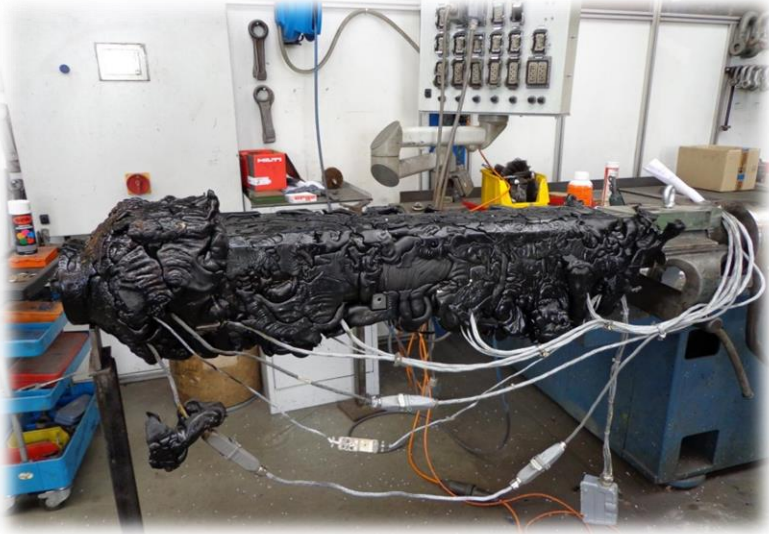


AIRTECT

Plastic Leak Alarm System

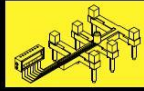


BECAUSE OF THIS!

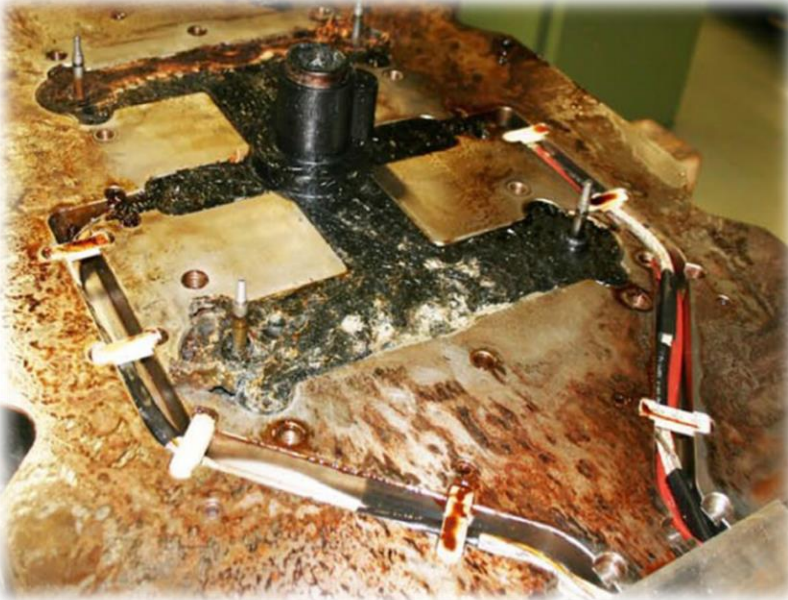
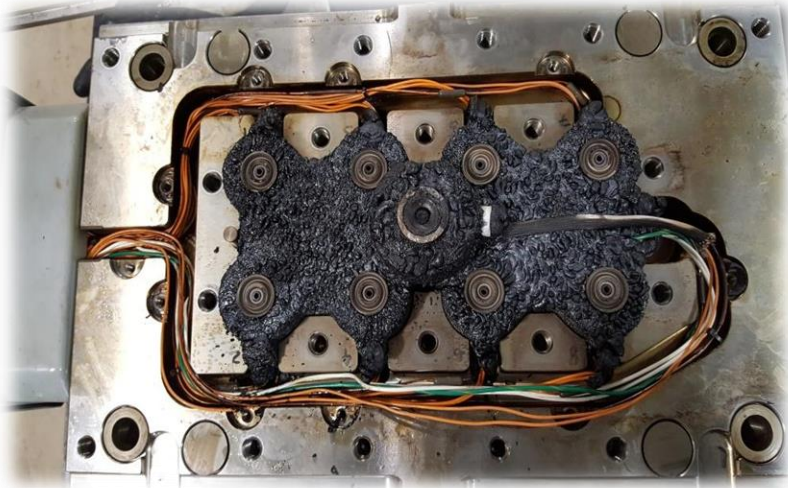


AIRTECT

Plastic Leak Alarm System



AND THIS.....!



A PROVEN EFFECTIVE SOLUTION TO REDUCE THE DAMAGE AND COST OF THESE LEAKS.....

LA500



LM2050



BENEFITS:

- Nozzle and Barrel Protection
- Significantly Reduced Budget for Maintenance Items
- Increased Health and Safety
- Reduced Downtime
- Peace of Mind for Unattended Machines



LA500

Functions as an Injection Nozzle Leak Alarm + Display and Control Unit and can be connected to Multi-Zone Manifold Units for Hot Runner Leak Detection.



INJECTION NOZZLE PLASTIC LEAK ALARM (AND CONTROL UNIT FOR LA508/516 MANIFOLD)

Kit Includes:

- LA500 with 2 x 7-segment LED display with programmable operational settings
- AR-20GF Air Pressure Regulator with Pressure Gauge, Air Filter and Fittings
- 3 Meters PU Tube
- 0.5 Metres 2.5mm Silicone Rubber Tube
- 3 Meters 2mm Stainless Steel Sensor Tube
- Installation/Operation Manual
- 2 Meter Electrical Power/Interlock Cable

Functions as an Injection Nozzle Leak Alarm + Display and Control Unit and can be connected to Multi-Zone Manifold Units for Hot Runner Leak Detection.



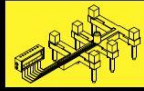
INJECTION NOZZLE PLASTIC LEAK ALARM (AND CONTROL UNIT FOR LA508/516 MANIFOLD)

Kit Includes:

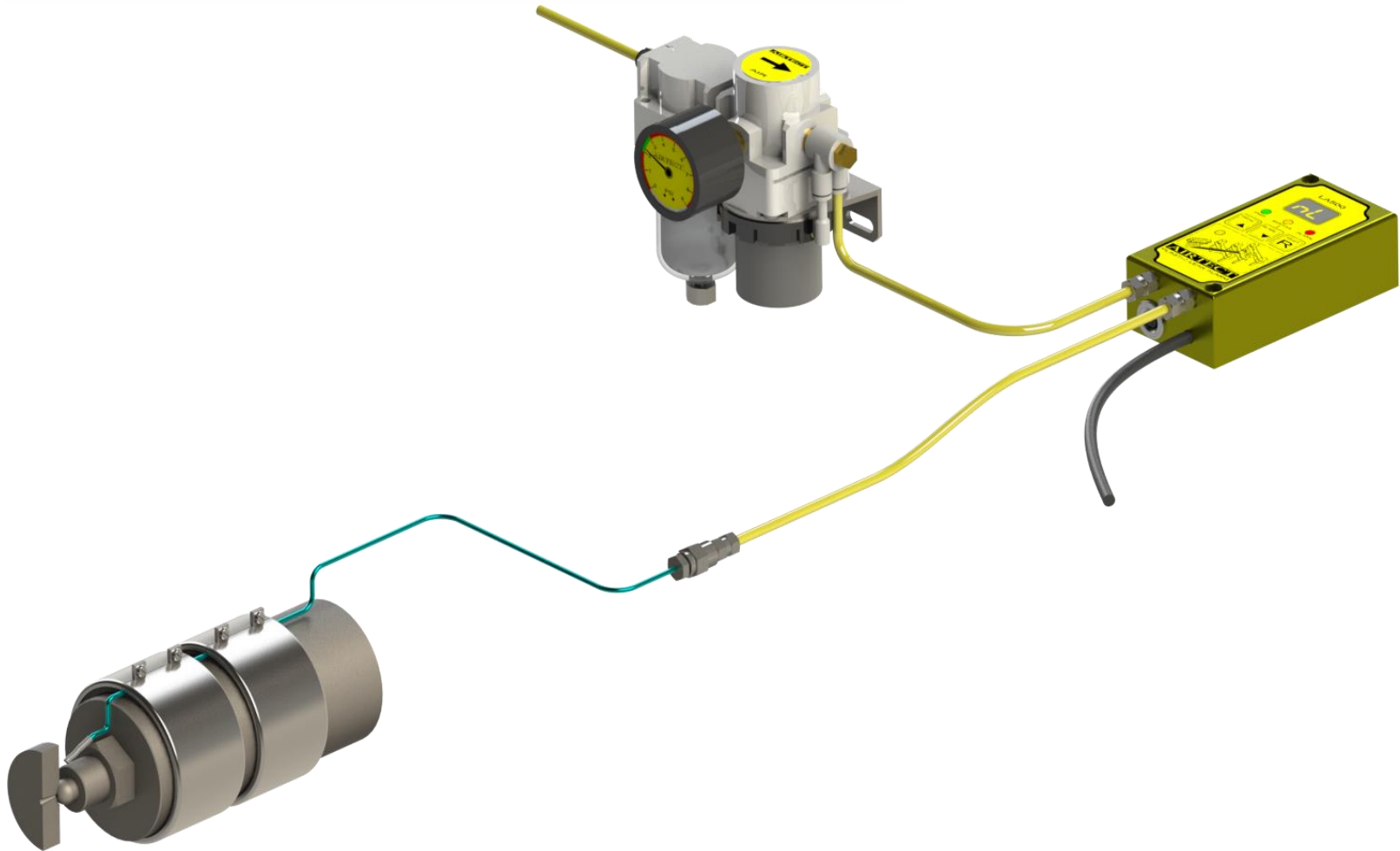
- LM2050 with Clear Text LCD display with programmable operational settings
- AR-20GF Air Pressure Regulator with Pressure Gauge, Air Filter and Fittings
- 3 Meters PU Tube
- 0.5 Metres 2.5mm Silicone Rubber Tube
- 3 Meters 2mm Stainless Steel Sensor Tube
- Installation/Operation Manual
- 3 Meter Electrical Power/Interlock Cable

AIRTECT

Plastic Leak Alarm System



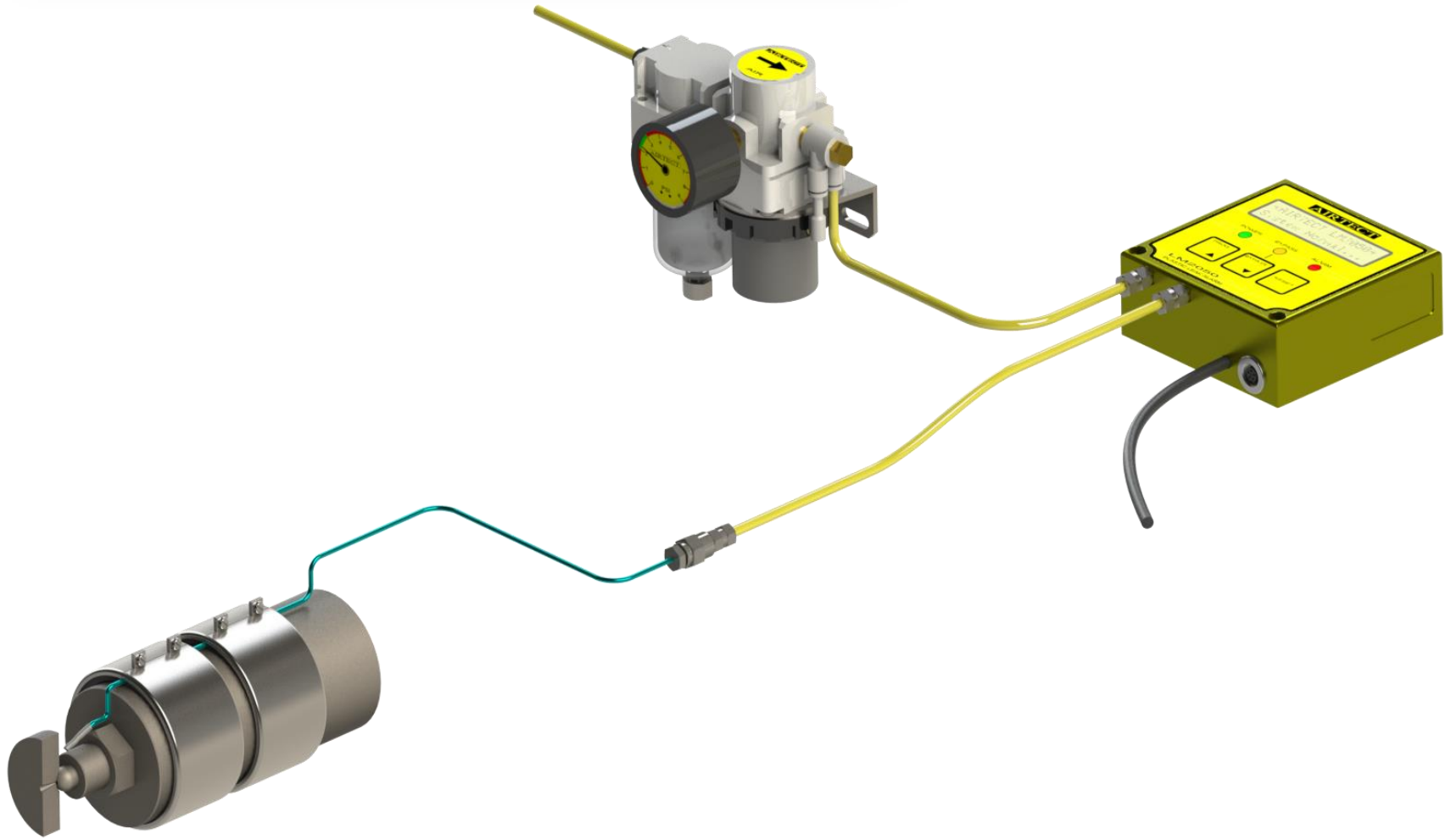
LA500 INSTALLATION
(for nozzle only leak detection)



AIRTECT

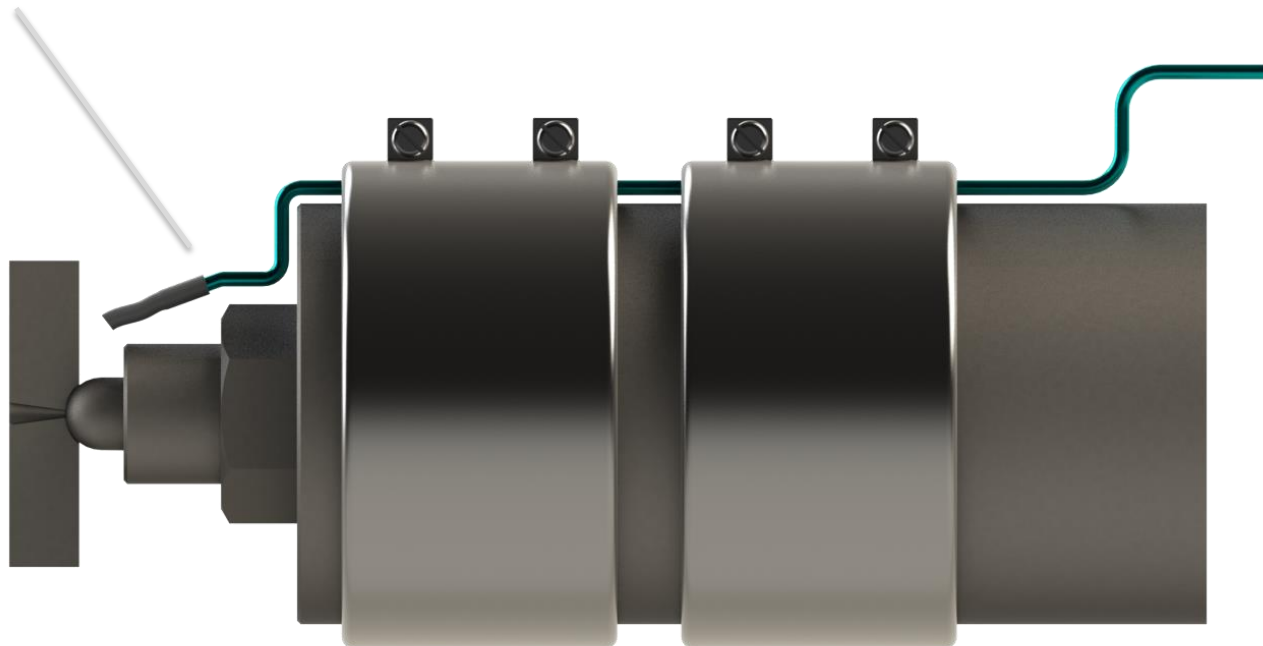
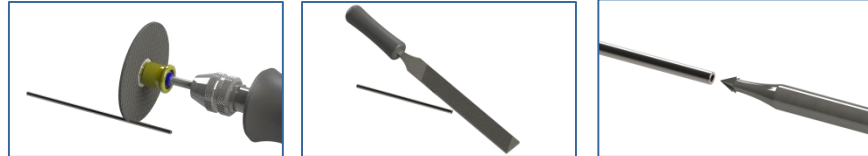
Plastic Leak Alarm System

LM2050 INSTALLATION (for nozzle only leak detection)



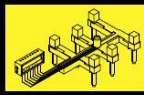
FULL CUTTING RECOMMENDATIONS SHOWN LATER

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!



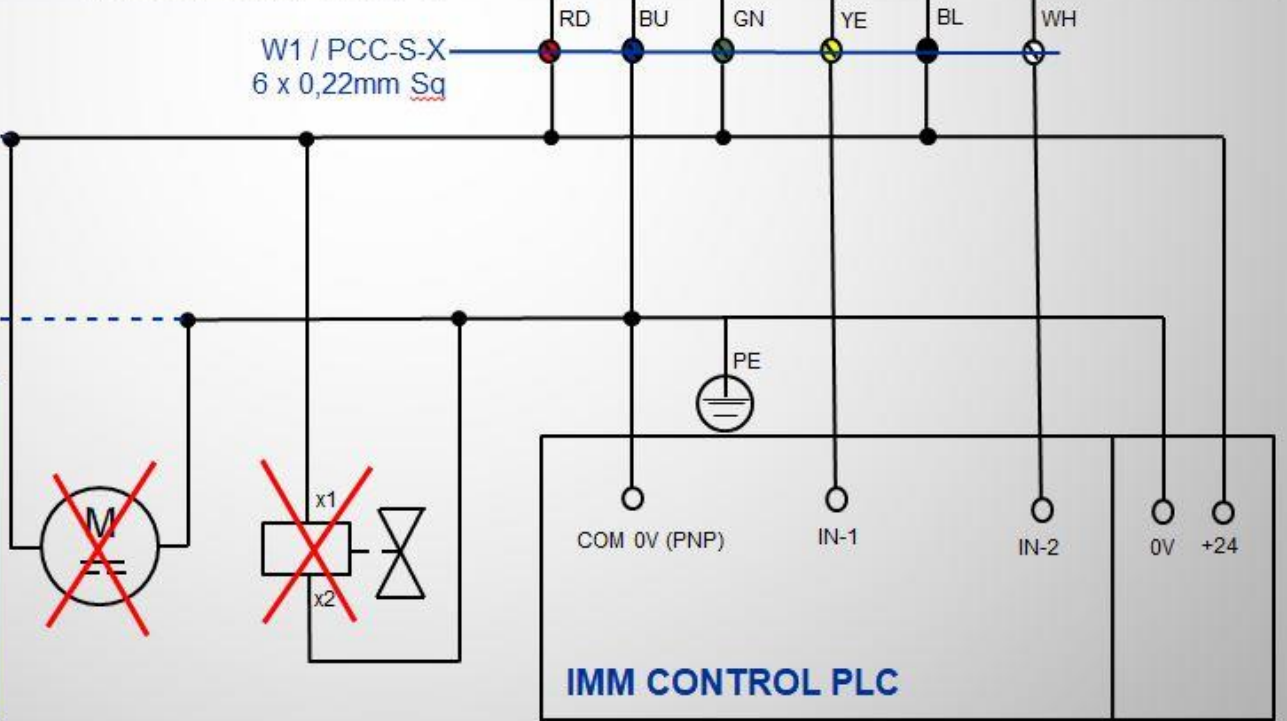
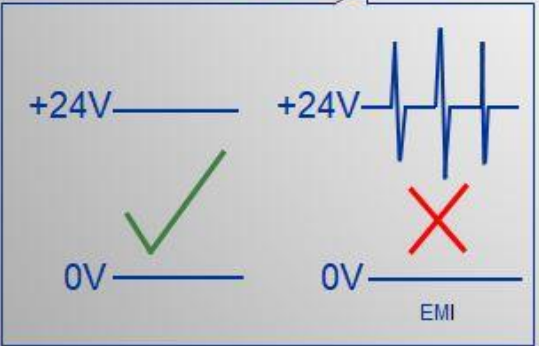
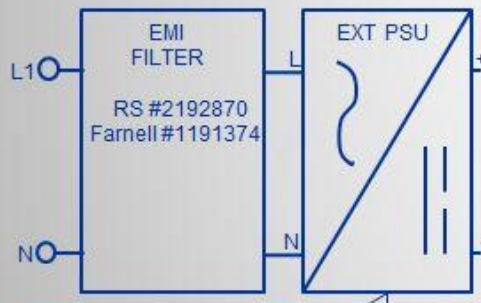
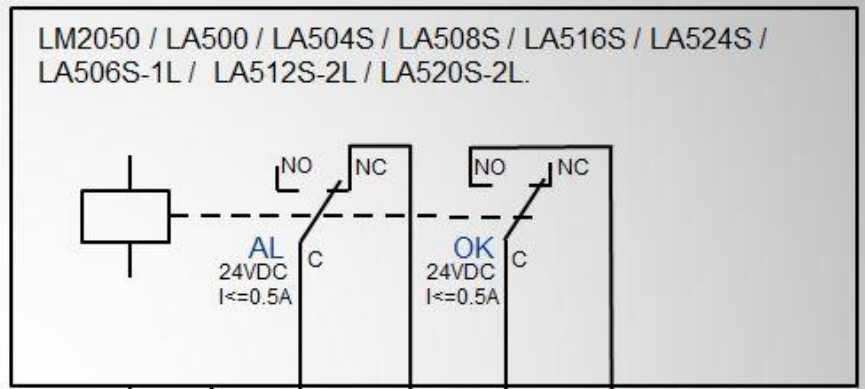
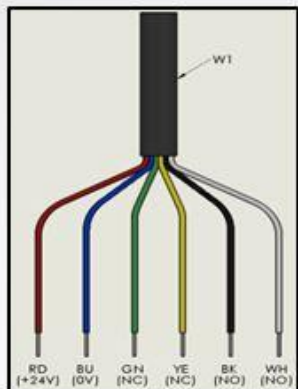
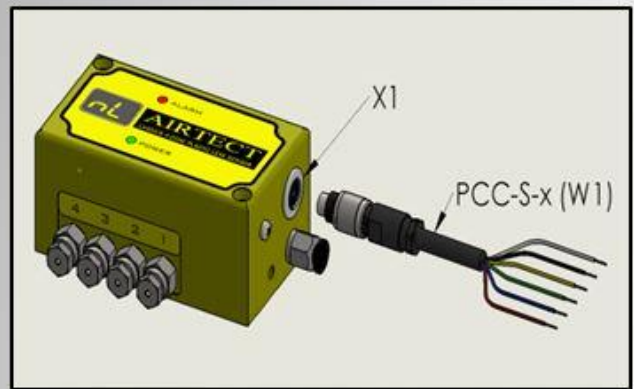
AIRTECT

Plastic Leak Alarm System



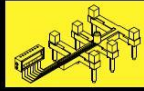
ELECTRICAL INSTALLATION

(Single nozzle, Multi-Zone and Stand-Alone Units)



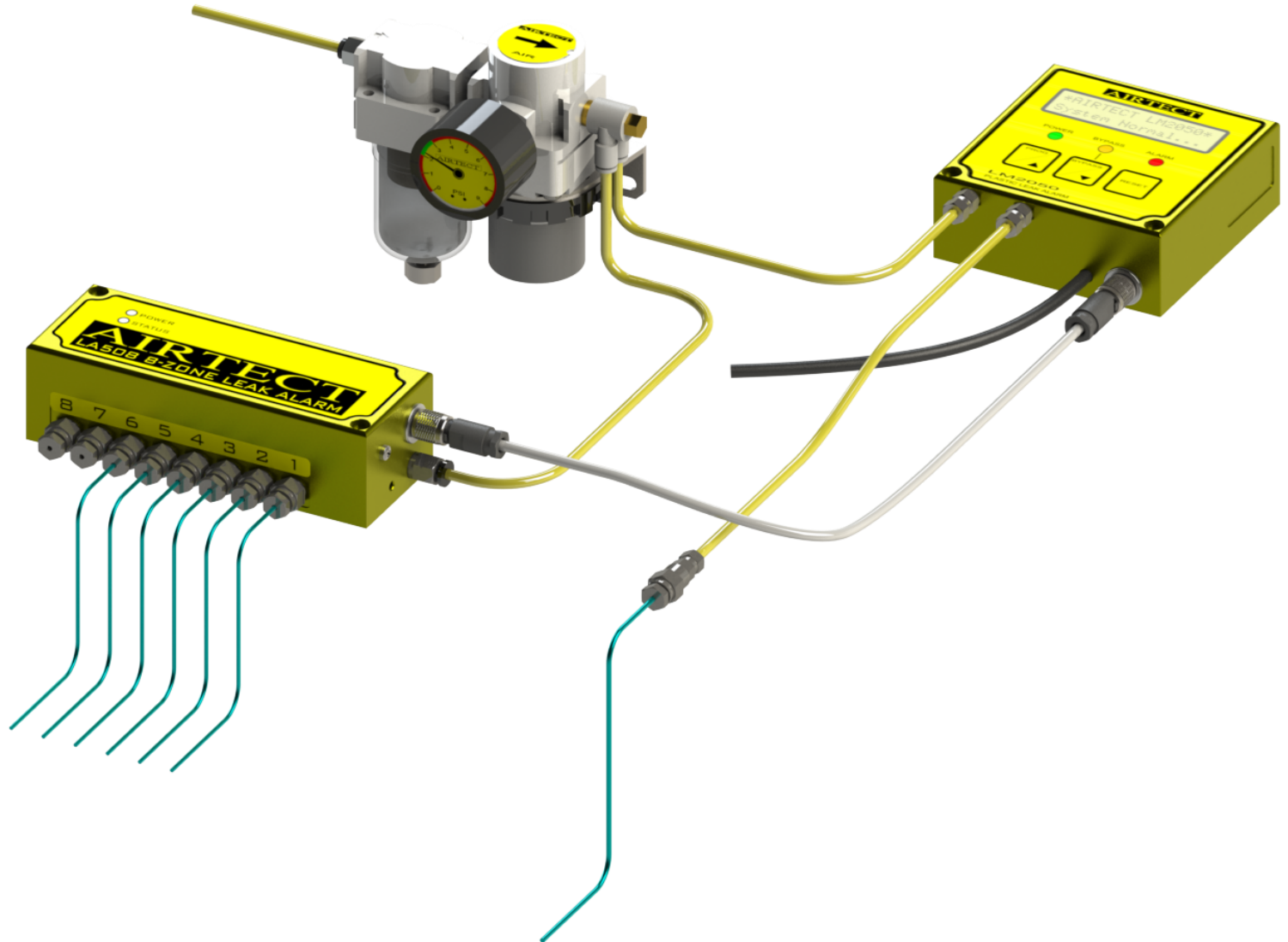
AIRTECT

Plastic Leak Alarm System



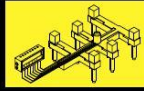
LM2050 INSTALLATION

(single nozzle and 8-zone leak detection)



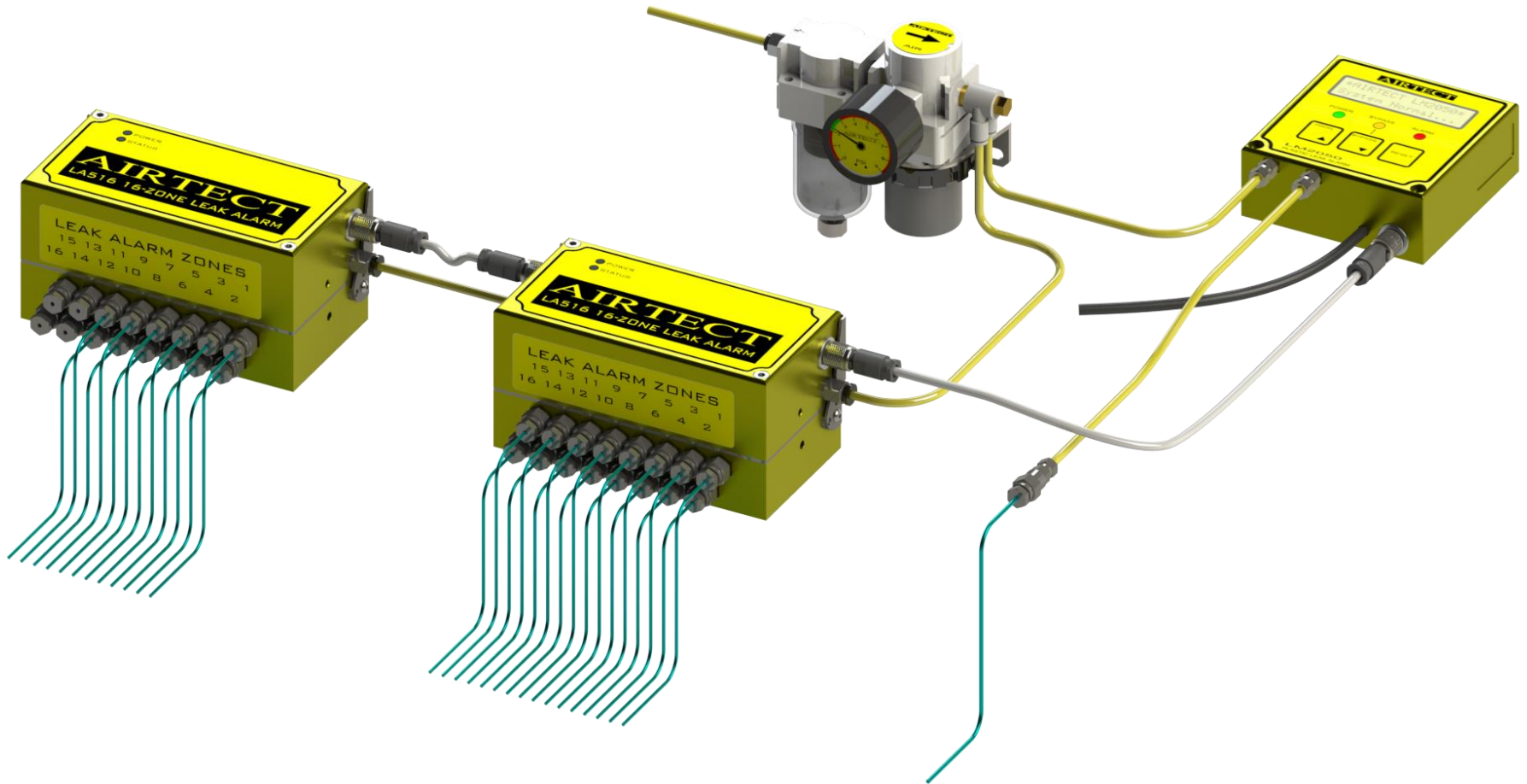
AIRTECT

Plastic Leak Alarm System



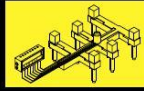
LM2050 INSTALLATION

(single nozzle and 32-zone leak detection)



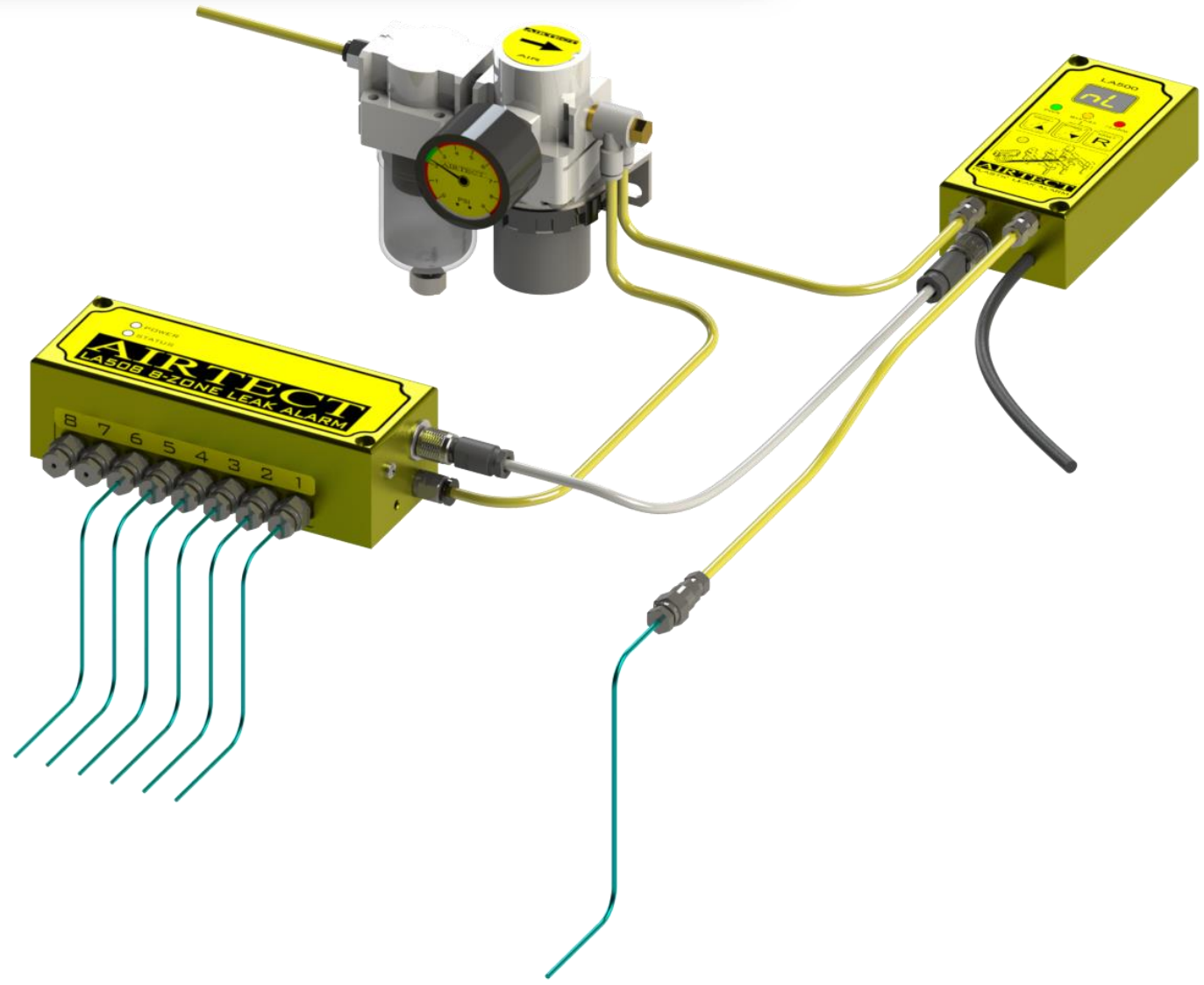
AIRTECT

Plastic Leak Alarm System



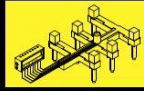
LA500 INSTALLATION

(single nozzle and 8-zone leak detection)



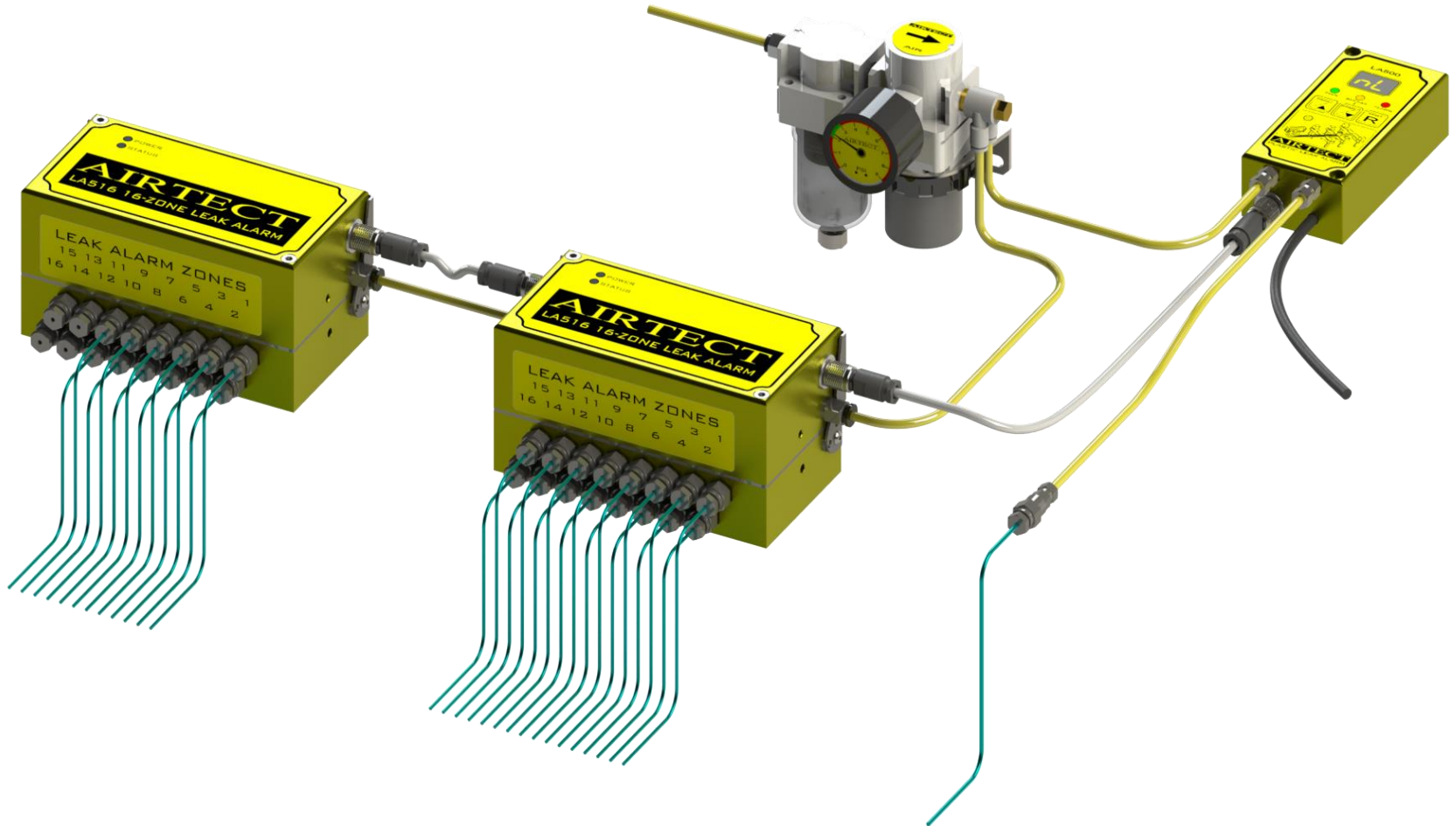
AIRTECT

Plastic Leak Alarm System



LA500 INSTALLATION

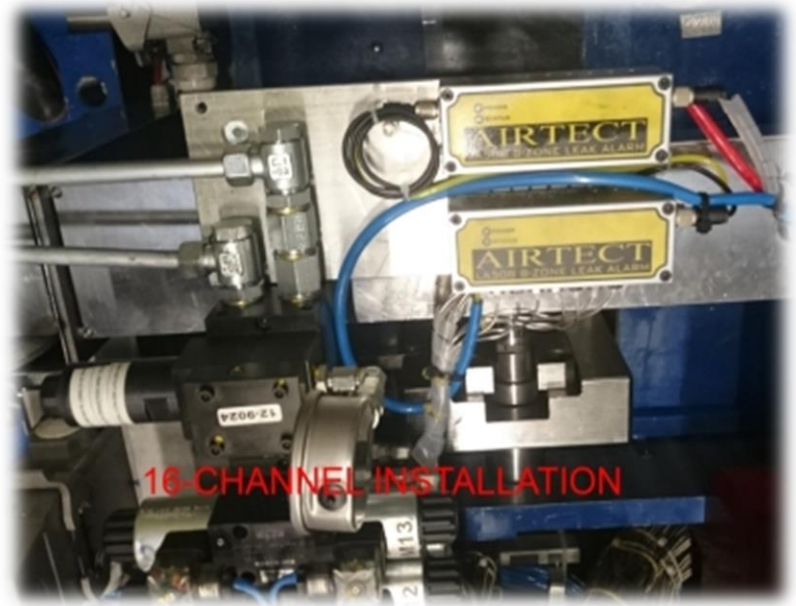
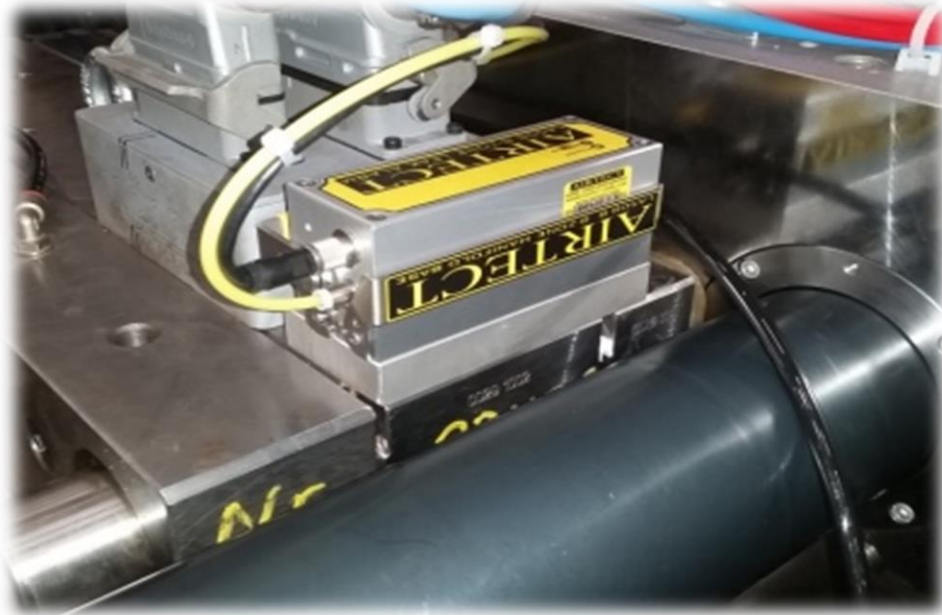
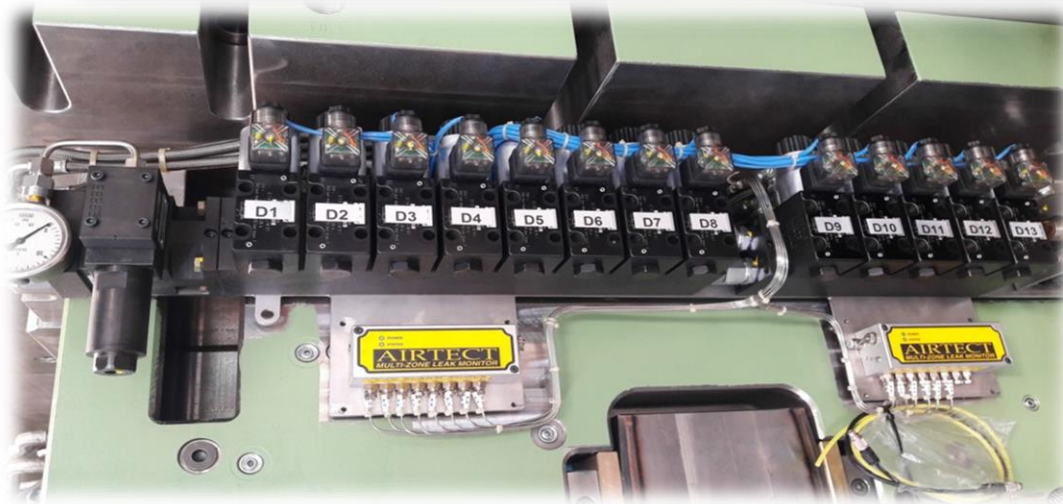
(single nozzle and 32-zone leak detection)



AIRTECT

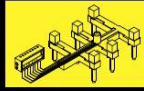
Plastic Leak Alarm System

MANIFOLD INSTALLATION PHOTOS

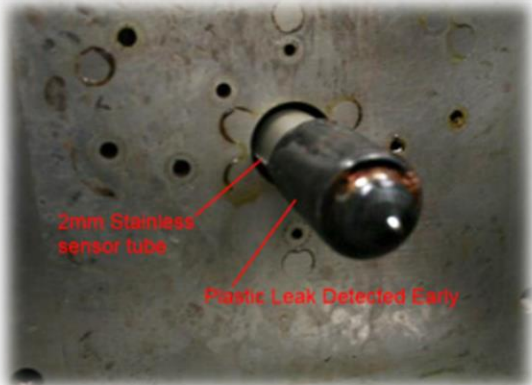
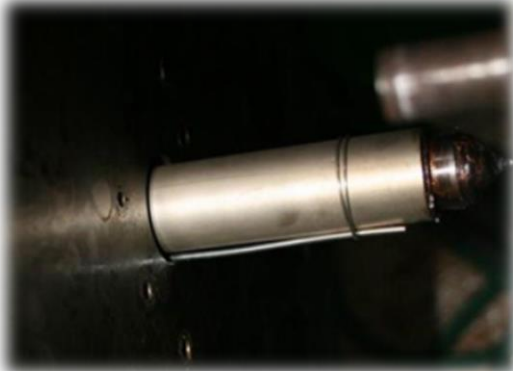


AIRTECT

Plastic Leak Alarm System



SENSOR TUBE INSTALLATION PHOTOS

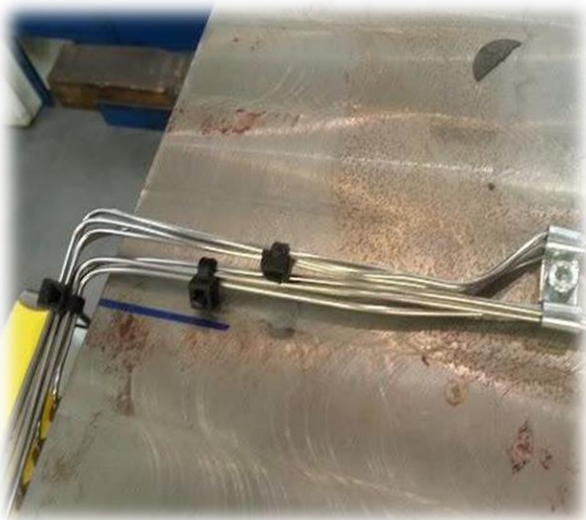
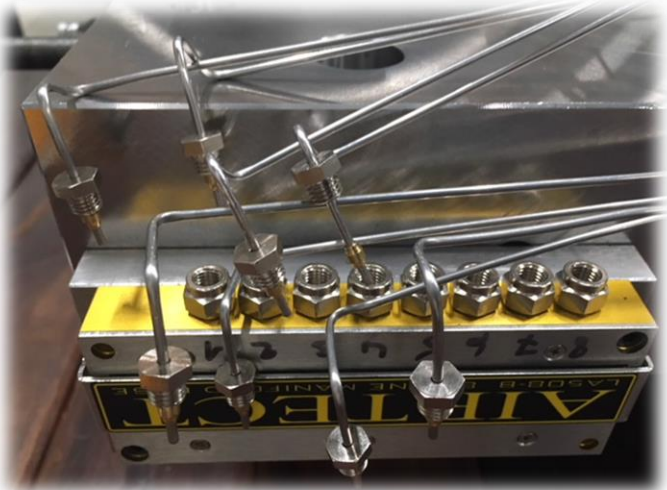


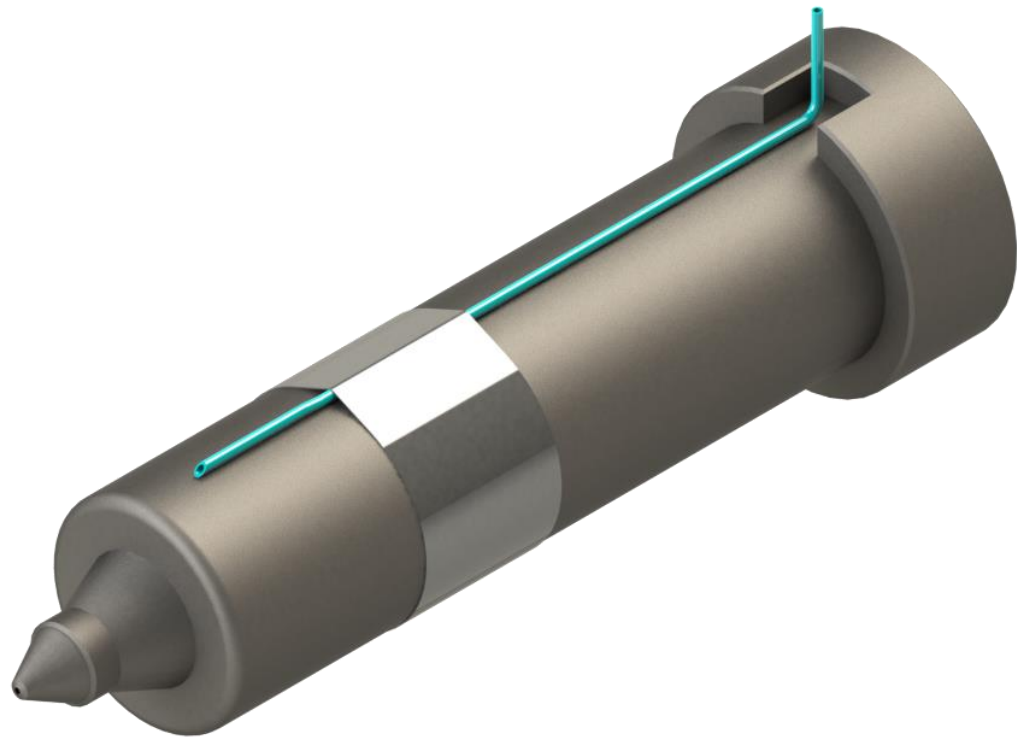
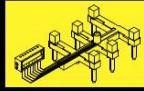
SENSOR TUBE INSTALLATION

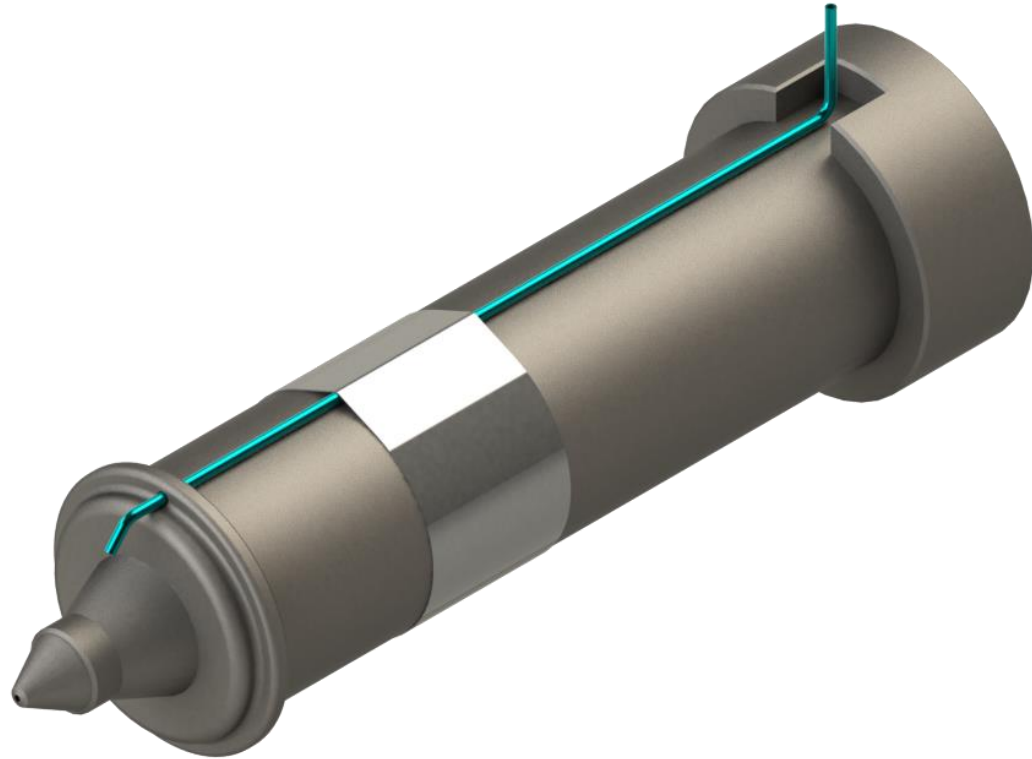
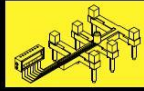
AIRTECT

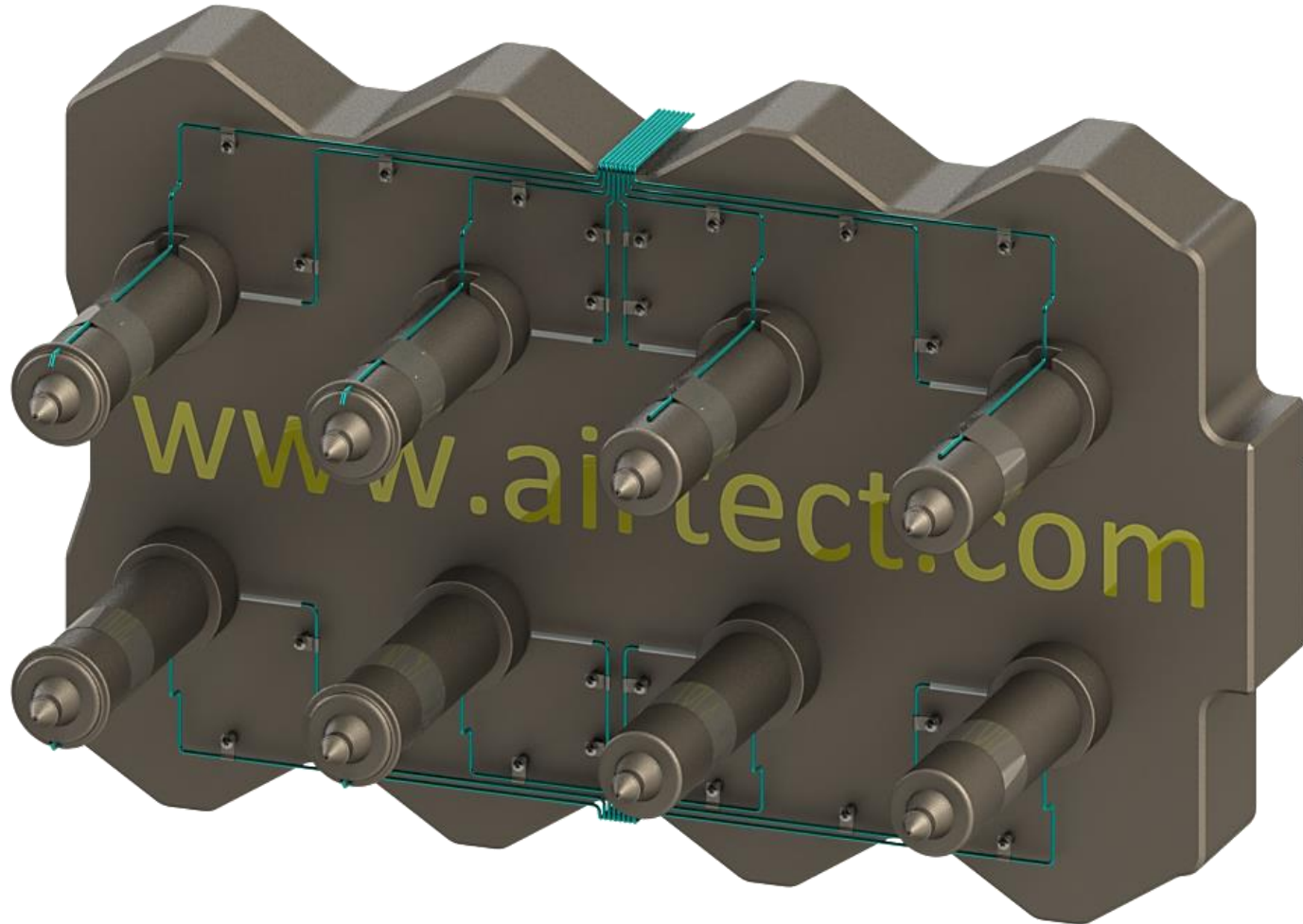
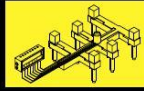
Plastic Leak Alarm System

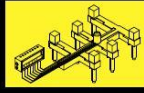
SENSOR TUBE INSTALLATION PHOTOS



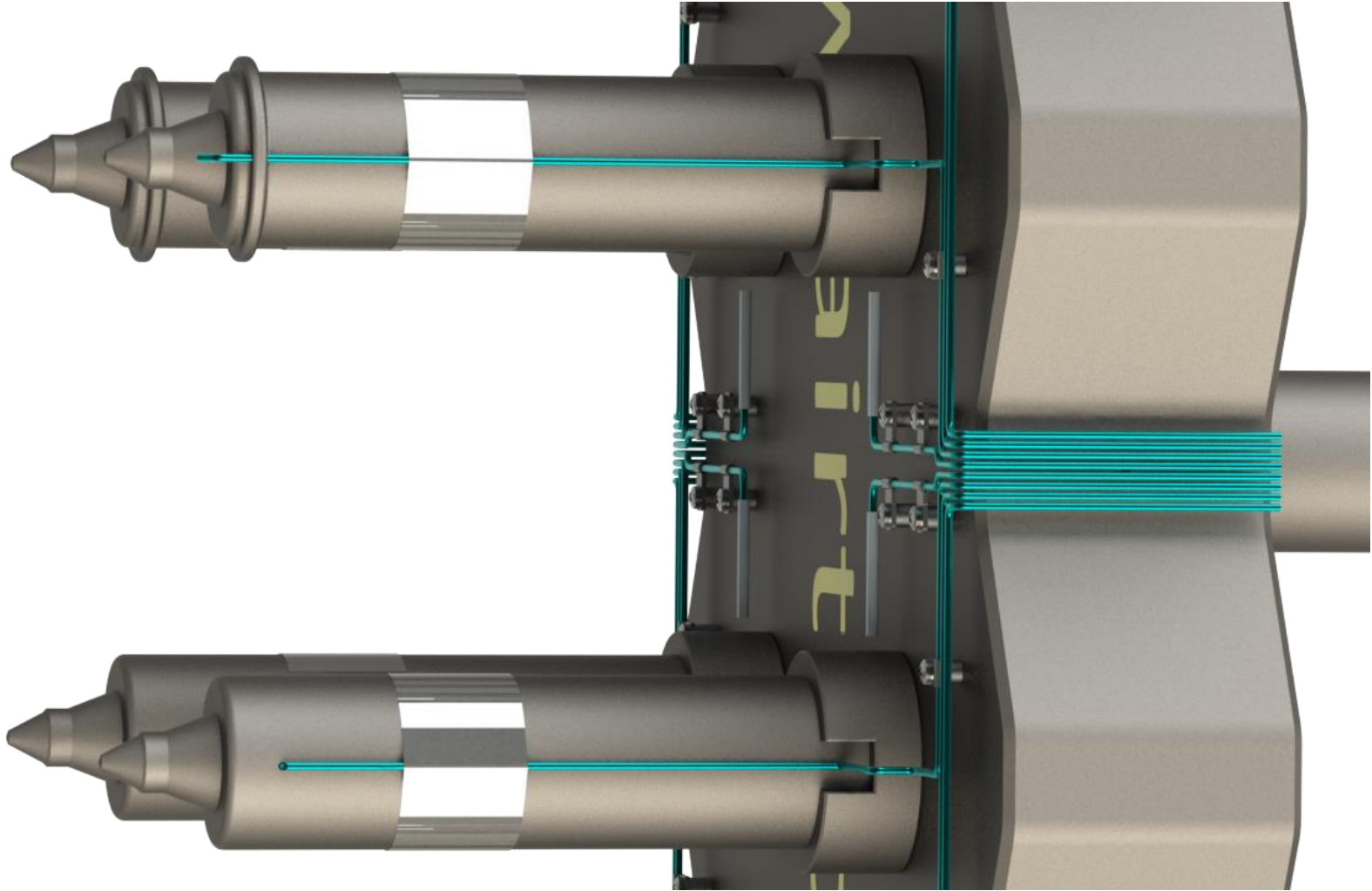


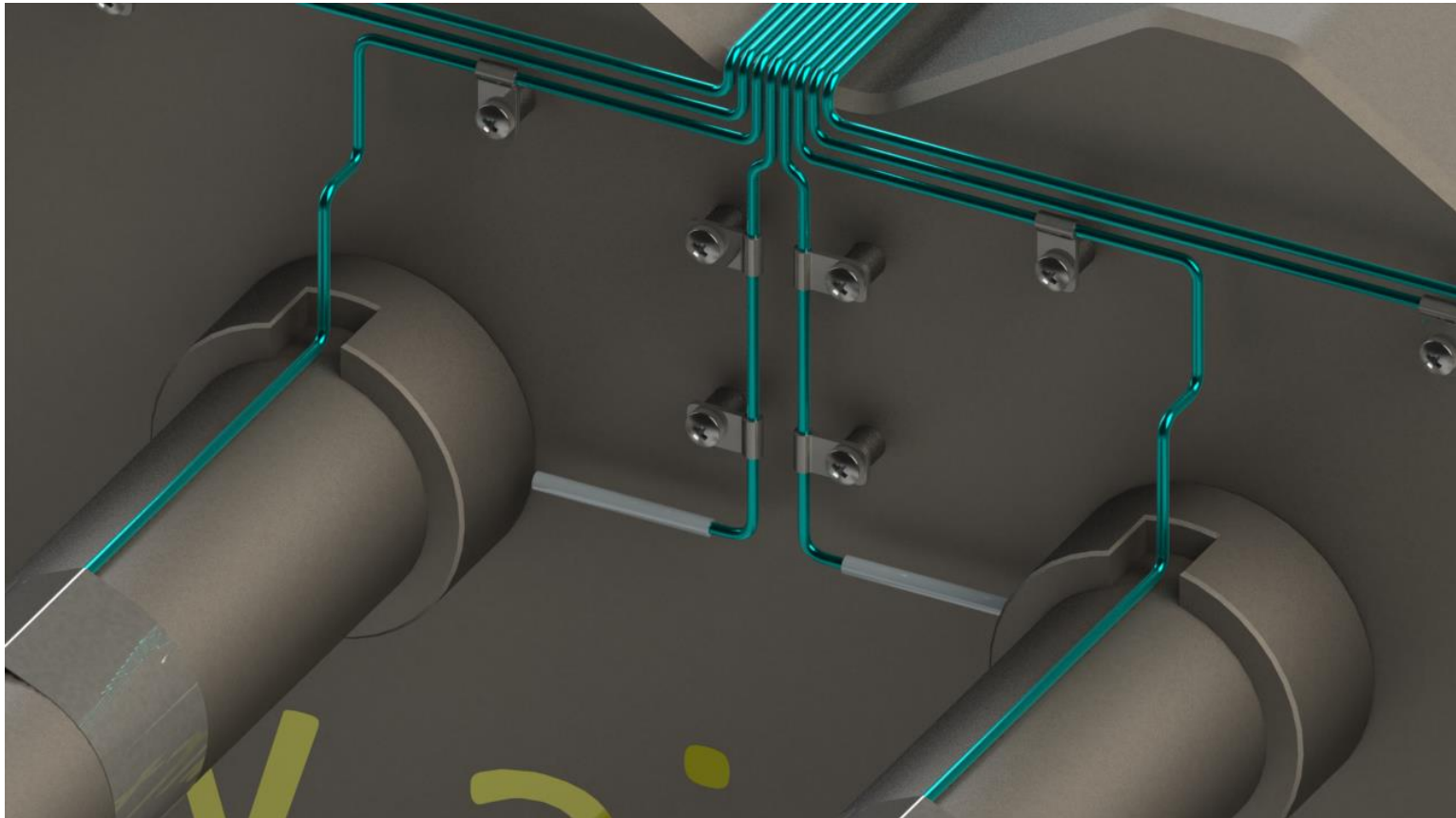
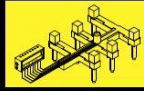






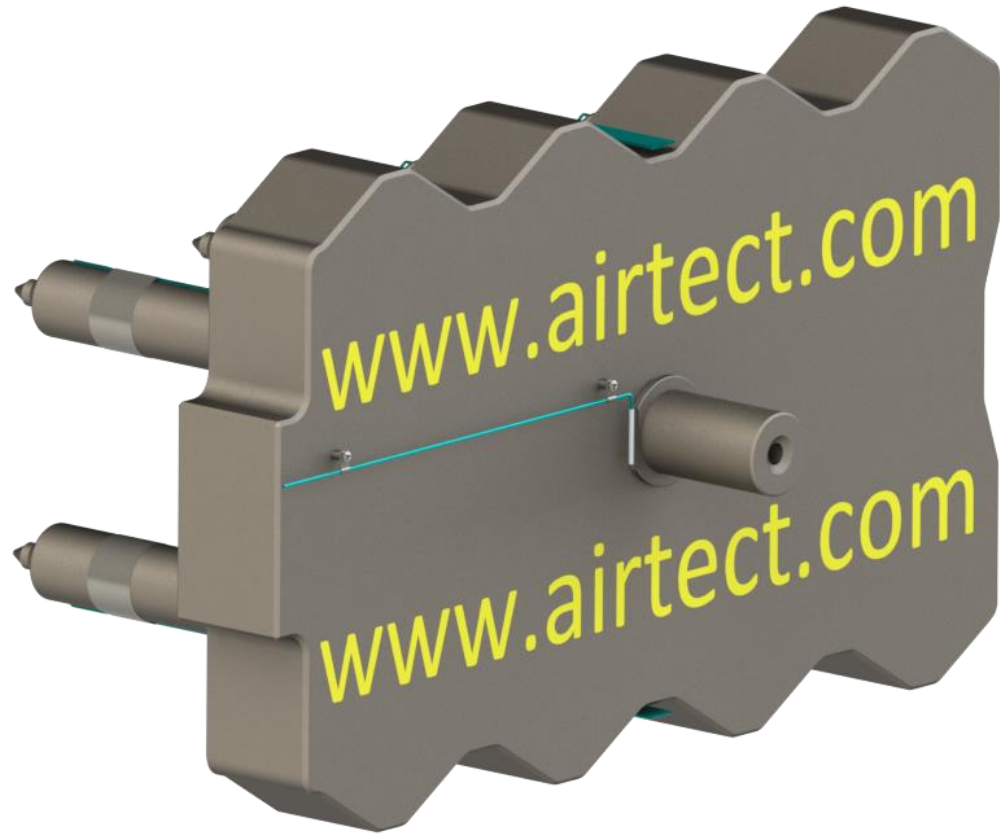
SENSOR TUBE INSTALLATION RECOMMENDATIONS







**SENSOR TUBE INSTALLATION
RECOMMENDATIONS**





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

MULTI-ZONE LEAK DETECTION MANIFOLDS ARE AVAILABLE AS 'STANDARD' OR 'STAND-ALONE' UNITS

'STANDARD' MANIFOLD ADVANTAGES (CONNECTED TO 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**

'STAND-ALONE' MANIFOLD ADVANTAGES

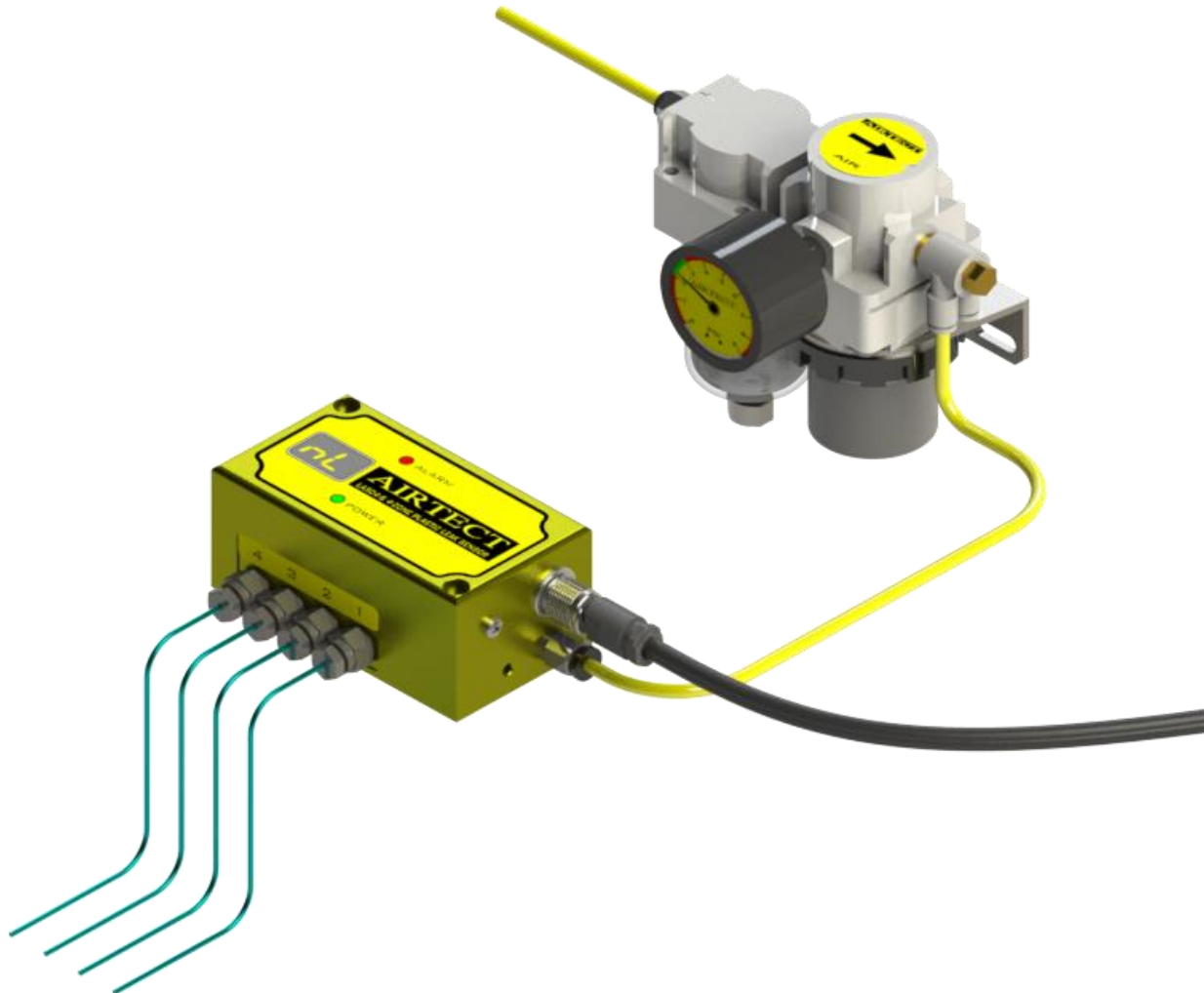
- **LOW COST ALTERNATIVE WITH INTEGRAL CONTROL UNIT**
- **LEAK LOCATION DISPLAYED ON MANIFOLD**
- **FIXED 10 SECOND INTERLOCK RELAY DELAY TIMER**
- **AVAILABLE IN FIXED OR MODULAR UNITS, SAME AS ABOVE.**
- **AUTO-RESET OF ALARMS**
- **SAME ELECTRICAL CONNECTIONS AS LA500/LM2050**
- **NO PCC CABLES**

NOTE: THESE UNITS CANNOT BE EXPANDED (DAISY CHAINED)



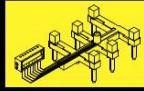
DETECT YOUR NOZZLE AND HOT
RUNNER LEAKS EARLY!! 😊

LA504S 4-ZONE 'STAND-ALONE' EXAMPLE



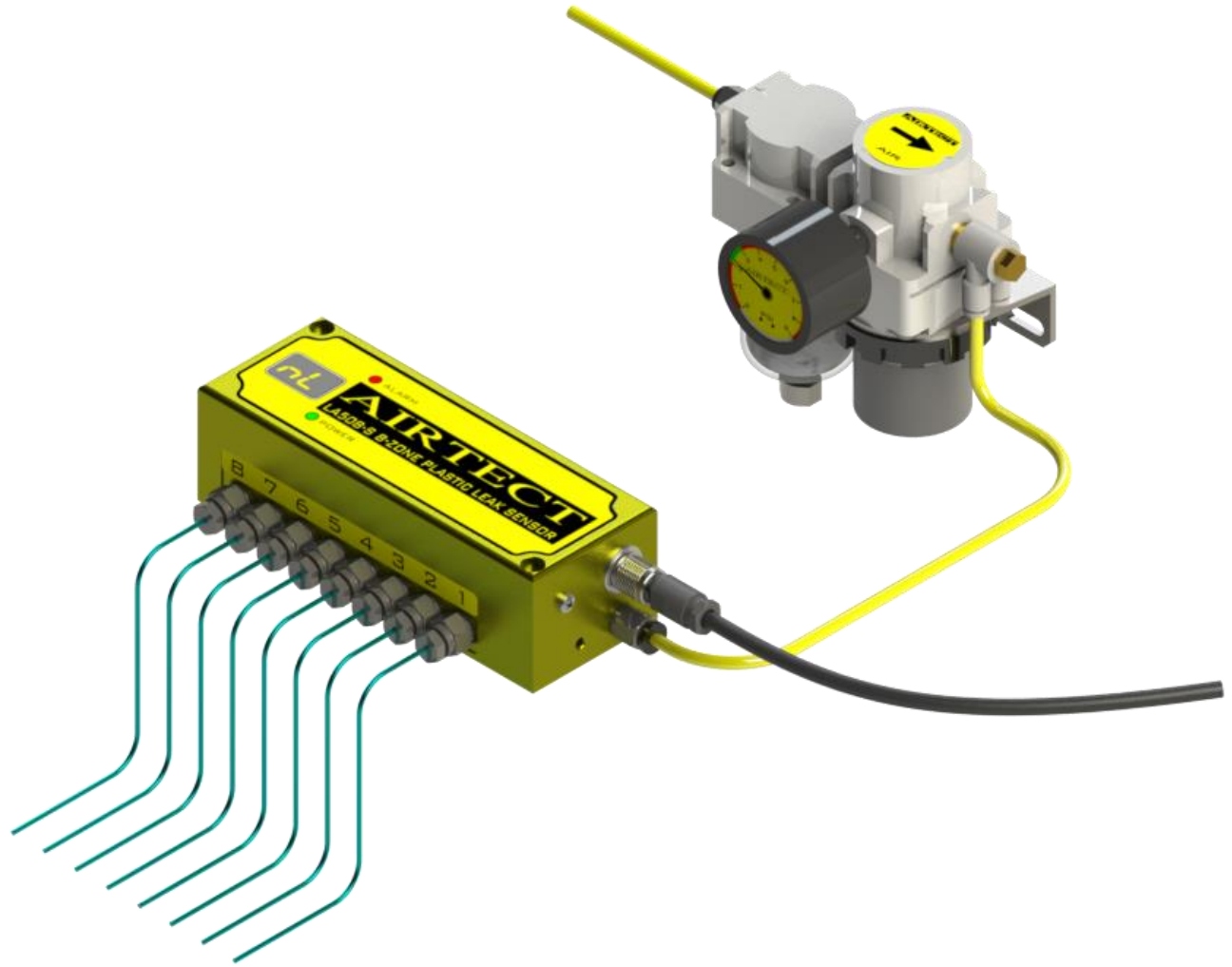
AIRTECT

Plastic Leak Alarm System



DETECT YOUR NOZZLE AND HOT RUNNER LEAKS EARLY!! 😊

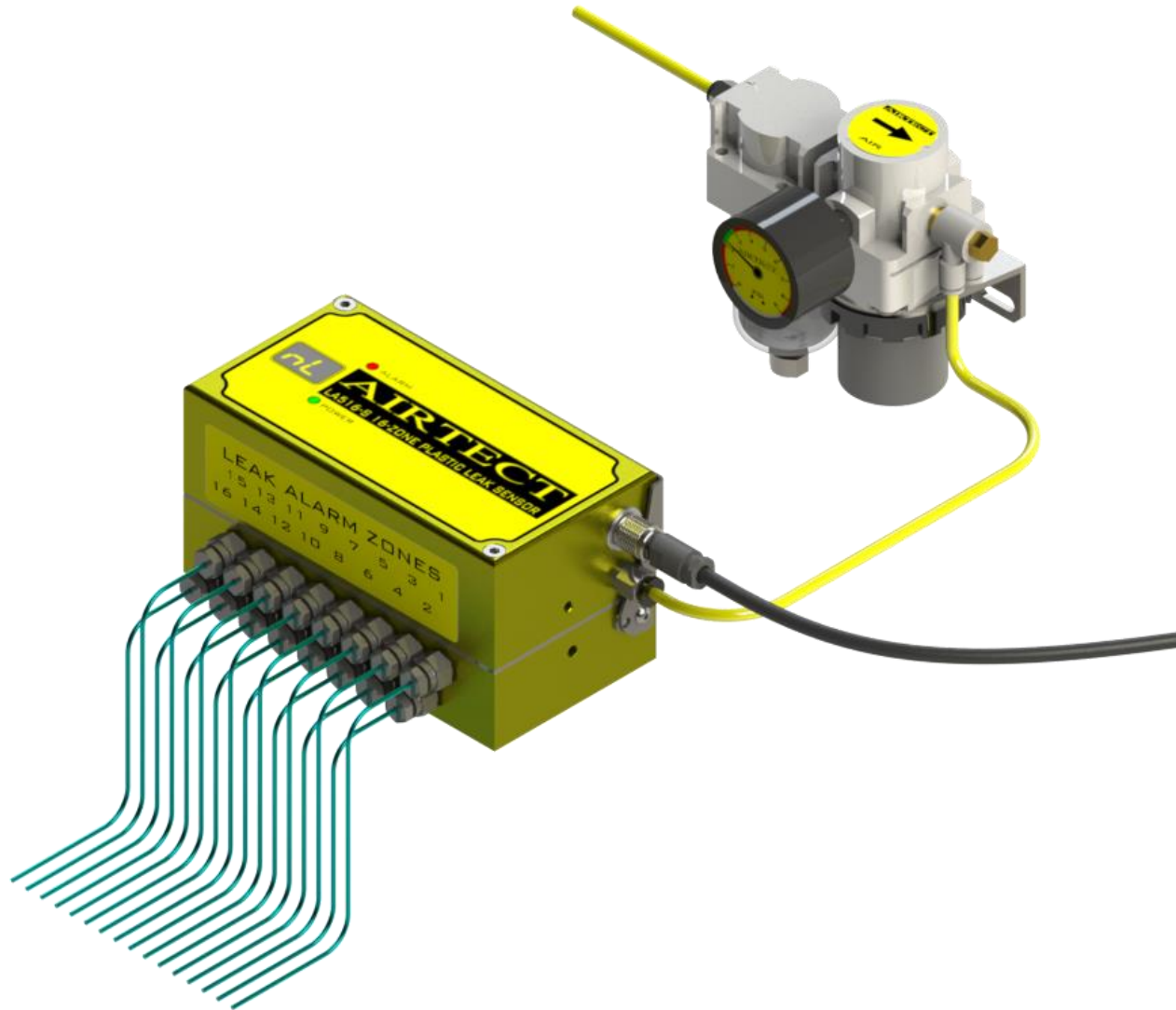
LA508S 8-ZONE 'STAND-ALONE' EXAMPLE

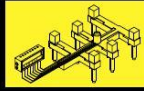




DETECT YOUR NOZZLE AND HOT
RUNNER LEAKS EARLY!! 😊

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

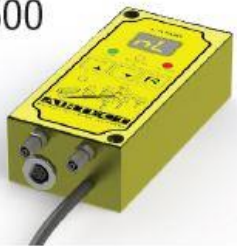




DETECT YOUR NOZZLE AND HOT RUNNER LEAKS EARLY!! 😊

4-ZONE 'STANDARD' LEAK DETECTION SYSTEM OPTIONS

LA500



or

LM2050



+

LA504



+ PCC-X

FIXED 4-ZONE

LA500



or

LM2050



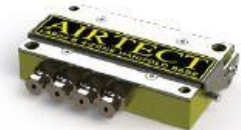
+

LA504-M-H



+ PCC-X

LA504-B



+

LA500



or

LM2050



+

LA504-M-S

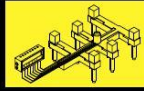


+ PCC-X

LA504-B



+



4-ZONE 'STAND-ALONE' LEAK DETECTION SYSTEM OPTIONS

LA504-S



LA504-S-M-H



+

LA504-B



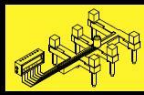
LA504-S-M-S



+

LA504-B





DETECT YOUR NOZZLE AND HOT RUNNER LEAKS EARLY!! 😊

8-ZONE 'STANDARD' LEAK DETECTION SYSTEM OPTIONS

LA500



or

LM2050



+

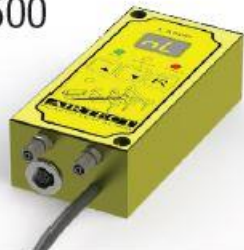
+ PCC-X

LA508-N



FIXED 8-ZONE

LA500



or

LM2050



+

+ PCC-X

LA508-M-H-N



+

LA508-B



LA500



or

LM2050



+

+ PCC-X

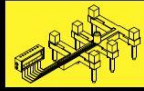
LA508-M-S-N



+

LA508-B

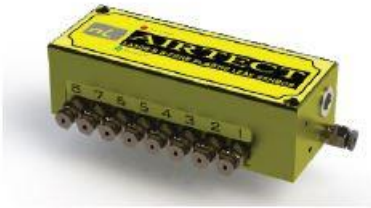




DETECT YOUR NOZZLE AND HOT RUNNER LEAKS EARLY!! 😊

8-ZONE 'STAND-ALONE' LEAK DETECTION SYSTEM OPTIONS

LA508-S



LA508-S-M-H



+

LA508-B

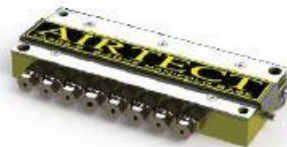


LA504-S-M-S



+

LA508-B



+ PCC-X



DETECT YOUR NOZZLE AND HOT RUNNER LEAKS EARLY!! 😊

16-ZONE 'STANDARD' LEAK DETECTION SYSTEM OPTIONS

LA500



or

LM2050



+

LA516-M-H-N



+

LA516-B



LA500



or

LM2050



+

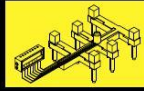
LA516-M-S-N



+

LA516-B





DETECT YOUR NOZZLE AND HOT RUNNER LEAKS EARLY!! 😊

16-ZONE 'STAND-ALONE' LEAK DETECTION SYSTEM OPTIONS

LA516-S-M-H

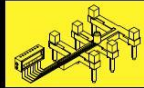
LA516-B



LA504-S-M-S

LA516-B





DETECT YOUR NOZZLE AND HOT RUNNER LEAKS EARLY!! 😊

ACCESSORIES

AR-20GF



Air pressure regulator + gauge, air filter and fittings

PU TUBE



Plastic tubing

PCC



Power/communication cable

TUBE-SIL



Silicone rubber tubing

LA-MAN-4



Tube adaptor

LA-MAN-2



Tube adaptor

NUT-SS



Nut and olive set

FIT-PU-SS



Fitting for tubing

FIT-SS-SS



Fitting for stainless tubing

TUBE-SS



Stainless steel tubing

BKT-SS



Fixing bracket

PCC-S



Power / Interlock cable



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

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.



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

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sales@nickersononeurope.co.uk

DESIGNED AND MANUFACTURED BY KENEX